

ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR LOW-POWER, NON-LICENSED TRANSMITTER

Test Report No. : E078R-025

AGR No : A075A-189R

Applicant : GAON-INT CO., LTD.

Address : Daelim Bldg., Suite 1501, Dohwa 1-dong, Nam-gu, Incheon, Korea

Manufacturer : Founder Telecommunication Corp. Ltd.

Address : FOUNDER TECHNOLOGY GARDEN, NO.2 LONGSHENG ROAD, XINCHENG DISTRICT, SHILONG TOWN, DONGGUAN, CHINA

Type of Equipment : 2.4GHz RF Wireless Presenter

FCC ID. : UP4IP-100T

Model Name : IP-100T

Serial number : None

Total page of Report : 17 pages (including this page)

Date of Incoming : July 30, 2007

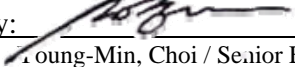
Date of issue : August 14, 2007


SUMMARY

The equipment complies with the regulation; **FCC Part 15 Subpart C Section 15.249.**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

Prepared by: 
Young-Min, Choi / Senior Engineer
EMC Div.
ONETECH Corp.

Reviewed by: 
Y. K. Kwon / Director
EMC Div.
ONETECH Corp.

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(TEL: 82-31-746-8500 FAX: 82-31-746-8700)

EMC Testing Dept : 307-51 Daessangryung-ri, Chowol-eup, Gwangju-si, Gyeonggi-do 464-860 Korea. (TEL: 82-31-765-8289 FAX: 82-31-766-2904)

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1. VERIFICATION OF COMPLIANCE

APPLICANT : GAON-INT CO., LTD.
 ADDRESS : Daelim Bldg., Suite 1501, Dohwa 1-dong, Nam-gu, Incheon, Korea
 CONTACT PERSON : Mr. Taejun, Kim / Director
 TELEPHONE NO : +82-32-246-1800
 FCC ID : UP4IP-100T
 MODEL NAME : IP-100T
 BRAND NAME : i-pointer
 SERIAL NUMBER : N/A
 DATE : August 14, 2007

| | |
|---|---|
| EQUIPMENT CLASS | DXX - Part 15 Low Power Communication Device Transmitter |
| KIND OF EQUIPMENT | 2.4GHz RF Wireless Presenter |
| THIS REPORT CONCERNS | ORIGINAL GRANT |
| MEASUREMENT PROCEDURES | ANSI C63.4: 2003 |
| TYPE OF EQUIPMENT TESTED | PRE-PRODUCTION |
| KIND OF EQUIPMENT AUTHORIZATION REQUESTED | CERTIFICATION |
| EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S) | FCC PART 15 SUBPART C Section 15.249 |
| MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE | No |
| FINAL TEST WAS CONDUCTED ON | 3 METER(S) OPEN AREA TEST SITE |

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. TEST SUMMARY

2.1 Test items and results

| SECTION | TEST ITEMS | RESULTS |
|------------|--|----------------------------|
| 15.249 (a) | Field Strength of Emission | Met the Limit / PASS |
| 15.249 (c) | Measurement distance | Met the Requirement / PASS |
| 15.249 (d) | Emissions Radiated Outside of the Specified Frequency Band | Met the Limit / PASS |
| 15.249 (e) | Radiated Emissions above 1000MHz | Met the Limit / PASS |
| 15.209 | Radiated Emission Limits, General Requirement | Met the Limit / PASS |
| 15.207 | Conducted Limits | Not Applicable (See Note) |
| 15.203 | Antenna Requirement | Met the Requirement / PASS |

Note. The Equipment under Test shall be operated by DC 1.5V (DC 1.5V Battery).

2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

2.3 Related Submittal(s) / Grant(s)

Original submittal only

2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in section 2.1.

2.5 Test Methodology

Radiated testing was performed according to the procedures in ANSI C63.4: 2003 at a distance of 3 meters from EUT to the antenna.

2.6 Test Facility

The Electromagnetic compatibility measurement facilities are located on at 307-51 Daessangryung-ri, Chowol-eup, Gwangju-si, Gyeonggi-do, 464-080, Korea. Description details of test facilities were submitted to the Federal Communications Commission on August 30, 2005 (Registration Number: 92819 and 340658), accredited by KOLAS (Korea Laboratory Accreditation Scheme, No: 85) and approved by TUV, DNV and MIC (Ministry of Information and Communications in Korea) according to the requirement of ISO17025.

3. GENERAL INFORMATION

3.1 Product Description

The GAON-INT CO., LTD., Model: IP-100T (referred to as the EUT in this report) is a 2.4GHz RF Wireless Presenter. The EUT has function for Remote controller, Laser Pointer and an associated receiver is manufactured by Founder Telecommunication Corp. Ltd., Model Nos.: IP-100R and IP-100R2G with DoC applications. The associated receivers shall be issued another test report number. Product specification information described herein was obtained from product data sheet or user's manual.

| | |
|---|--|
| DEVICE TYPE | Portable Device |
| OPERATING FREQUENCY | 2421 ~2460 MHz |
| RATED RF OUTPUT POWER | Less than 0dBm |
| RATED OCCUPIED BANDWIDTH | Less than 1MHz |
| DATA TRANSFER RATE | 250kbps |
| USED RF CHIEF | Nordic, nRF2402 |
| ANTENNA | Inserted into the main board (Pattern Antenna) |
| CHANNEL | 40 Channels |
| MODULATION | GFSK (Gaussian Frequency Shift Keying) |
| LIST OF EACH OSC. OR CRY. FREQ.(FREQ.>=1MHz) | 12 MHz |
| NUMBER OF LAYER | 2 Layers |
| POWER REQUIREMENT | DC 1.5V from a battery |
| EXTERNAL CONNECTOR | None |

3.2 Model Differences

-. None

3.3. EUT MODIFICATIONS

-. None

4. SYSTEM TEST CONFIGURATION

4.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

| DEVICE TYPE | MANUFACTURER | MODEL/PART NUMBER | FCC ID |
|-------------|--------------|-------------------|--------|
| Main Board | N/A | GWP-100_1 | N/A |

4.2 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested: None

4.3 Mode of operation during the test

To get a maximum radiated emission from the EUT, the button on the EUT was continuously pressed to transmit the signal.

To activate continuous transmission, place a small plastic block between rubber band and the push button on the EUT.

To get a maximum emission levels from the EUT, the EUT was moved throughout the XY, XZ, and YZ planes.

4.4 Configuration of Test System

Line Conducted Test: It is not need to test this requirement, because the EUT shall be operated by DC battery.

Radiated Emission Test: Preliminary radiated emissions test were conducted using the procedure in ANSI C63.4: 2003 8.3.1.1 and 13.1.4.1 to determine the worse operating conditions. Final radiated emission tests were conducted at 3meter open area test site.

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.

4.5 Antenna Requirement

For intentional device, according to section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Construction:

The transmitter antenna of the EUT is a pattern antenna on the main board in the EUT, so no consideration of replacement by the user.

5. PRELIMINARY TEST

5.1 AC Power line Conducted Emissions Tests

During Preliminary Tests, the following operating mode was investigated

| Operation Mode | The Worse operating condition (Please check one only) |
|--|---|
| It is not need to test this requirement, because the power of the EUT is supplied from a DC battery. | |

5.2 General Radiated Emissions Tests

During Preliminary Tests, the following operating modes were investigated

| Operation Mode | The Worse operating condition (Please check one only) |
|------------------------------|---|
| Stand-by mode | - |
| Continuous Transmitting mode | X |

6. RADIATED EMISSION TEST, GENERAL REQUIREMENT

6.1 Test set-up

The radiated emissions measurements were on the 3 meters, open-field test site. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30MHz to 1000MHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 and 4.0 meters in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

6.2 Measurement uncertainty

Radiated emission electric field intensity, 30 MHz ~ 300 MHz : ± 4.43 dB

Radiated emission electric field intensity, 300 MHz ~ 1000 MHz : ± 3.80 dB

Measurement uncertainty is calculated in accordance with WECC 19-1990. The measurement uncertainty is given with a confidence of 95% with the coverage factor, k=2.

6.3 Test equipment used

| Model Number | Manufacturer | Description | Serial Number | Last Cal. |
|-----------------|-----------------|----------------------|---------------|-------------------|
| ■ - ESVS10 | Rohde & Schwarz | EMI Test Receiver | 827864/005 | Dec 20, 2006 |
| ■ - MA240 | HD GmbH | Antenna Master | N/A | N/A |
| ■ - HD100 | HD GmbH | Position Controller | N/A | N/A |
| ■ - DS420S | HD GmbH | Turn Table | N/A | N/A |
| ■ - VHA9103 | Schwarzbeck | Biconical Antenna | 91031852 | Feb 08, 2007 |
| ■ - 9108-A(494) | Schwarzbeck | Log Periodic Antenna | 62281001 | Feb 08, 2007 |
| ■ - BBHA9120D | Schwarzbeck | Horn Antenna | BBHA9120D294 | July 03, 2006(2Y) |

All test equipment used is calibrated on a regular basis.

6.4 Final Result of Measurement

6.4.1 Field Strength of the Fundamental Frequency

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 45 % Temperature: 28 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.249(a)
 Result : PASSED BY -11.57 dB at 2421.00 MHz

EUT : 2.4GHz RF Wireless Presenter Date: August 01, 2007
 Operating Condition : TX mode
 Distance : 3 meters

| Channel | Radiated Emissions | | | Ant | Correction Factors | | Total | FCC Limit | |
|---------|---------------------|------------------|-------------|------|--------------------|------------|--------------------|----------------|-------------|
| | Carrier Freq. (MHz) | Amplitude (dBuV) | Detect Mode | Pol. | Antenna (dB/m) | Cable (dB) | Amplitude (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
| Low | 2421.00 | 52.33 | Peak | H | 27.25 | 3.83 | 83.41 | 113.98 | -30.57 |
| | | 48.50 | Average | H | | | 79.58 | 93.98 | -14.40 |
| | | 58.17 | Peak | V | | | 89.25 | 113.98 | -24.73 |
| | | 51.33 | Average | V | | | 82.41 | 93.98 | -11.57 |
| Middle | 2440.00 | 51.67 | Peak | H | 27.31 | 3.83 | 82.81 | 113.98 | -31.17 |
| | | 47.83 | Average | H | | | 78.97 | 93.98 | -15.01 |
| | | 57.50 | Peak | V | | | 88.64 | 113.98 | -25.34 |
| | | 50.67 | Average | V | | | 81.81 | 93.98 | -12.17 |
| High | 2460.00 | 50.83 | Peak | H | 27.37 | 3.83 | 82.03 | 113.98 | -31.95 |
| | | 46.92 | Average | H | | | 78.12 | 93.98 | -15.86 |
| | | 57.00 | Peak | V | | | 88.20 | 113.98 | -25.78 |
| | | 49.83 | Average | V | | | 81.03 | 93.98 | -12.95 |

*Remark: To get a maximum emission level from the EUT, the EUT was moved throughout the XY, XZ, and YZ planes.

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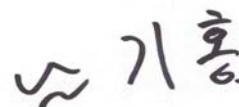
Tested by: Ki-Hong, Nam / Test Engineer

6.4.2 Emissions Conducted Outside of the Specified Frequency Bands

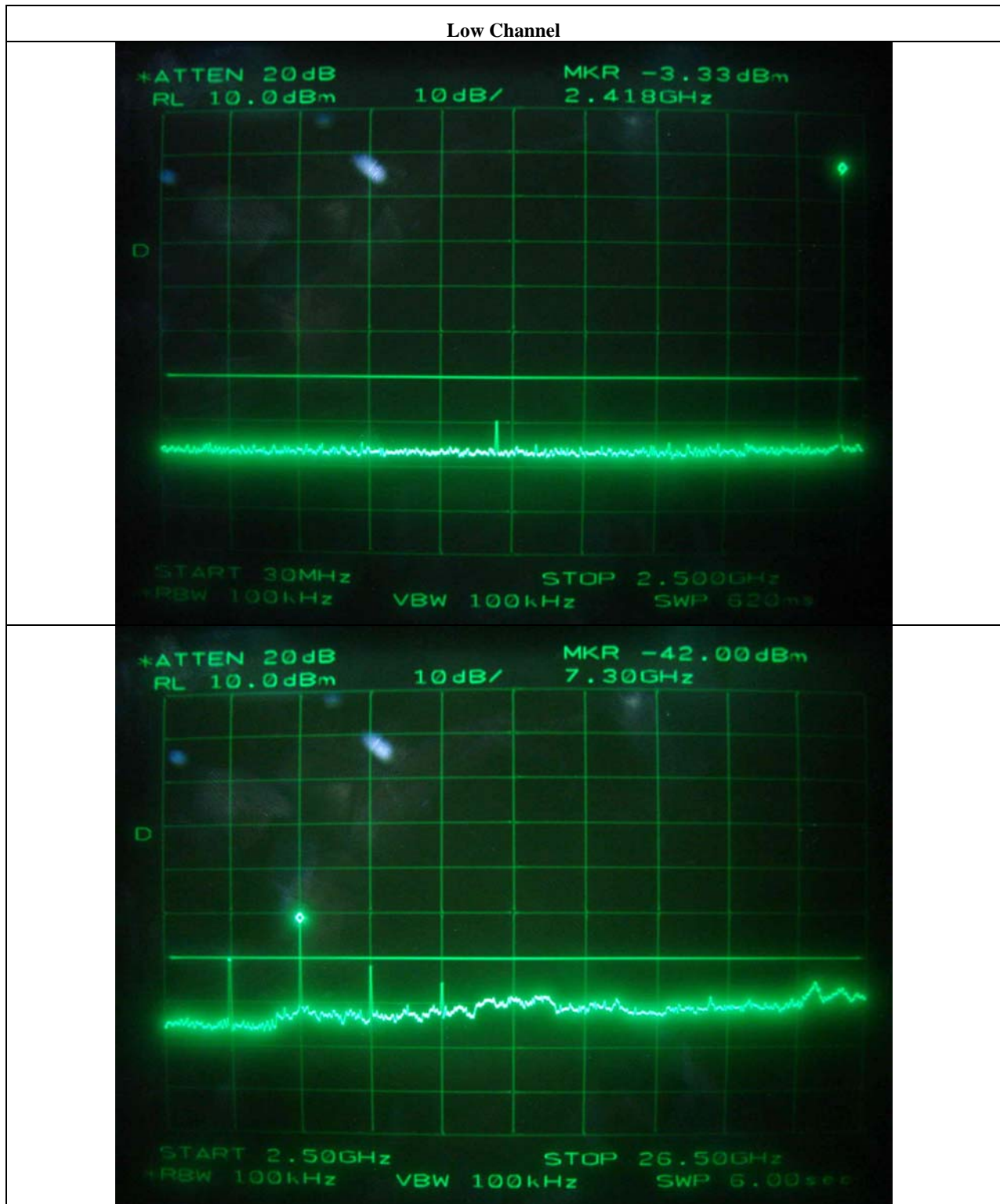
Humidity Level : 45 % Temperature: 28 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.249(d)
 Result : PASS

EUT : 2.4GHz RF Wireless Presenter Date: August 01, 2007
 Operating Condition : TX mode
 Distance : 3 meters

| Channel | Radiated Emissions | | | Ant | Correction Factors | | Total | FCC Limit | |
|---------|--|------------------|-------------|------|--------------------|------------|--------------------|----------------|-------------|
| | Carrier Freq. (MHz) | Amplitude (dBuV) | Detect Mode | Pol. | Antenna (dB/m) | Cable (dB) | Amplitude (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
| Low | Spurious frequencies except harmonics have margin more than 50dB, and were scanned up to 26.5 GHz. See next page for graph data, which was obtained by conducted measurement. | | | | | | | | |
| Middle | | | | | | | | | |
| High | | | | | | | | | |



Tested by: Ki-Hong, Nam / Test Engineer



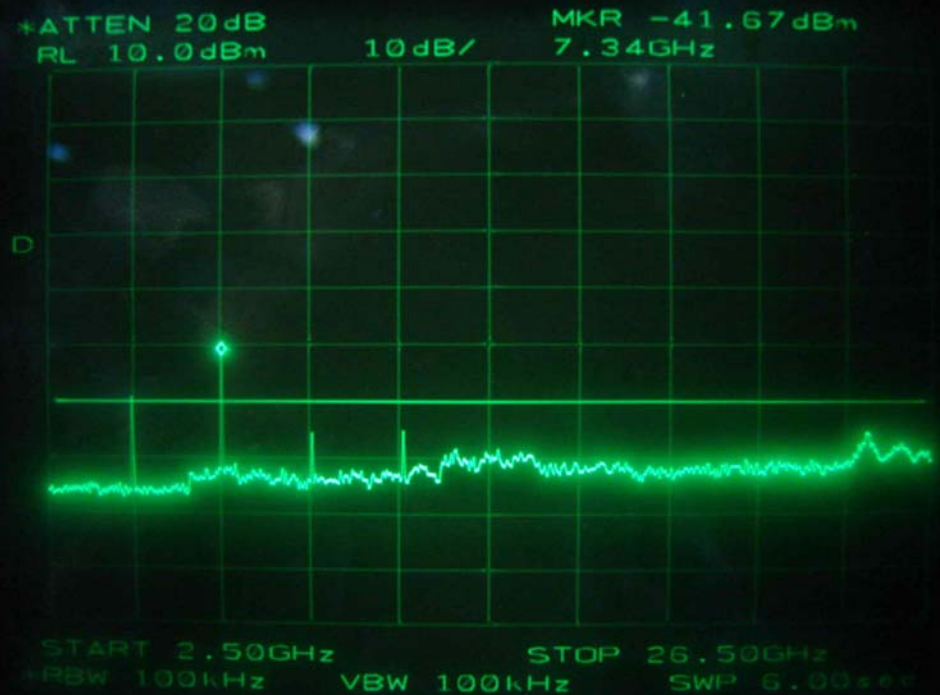
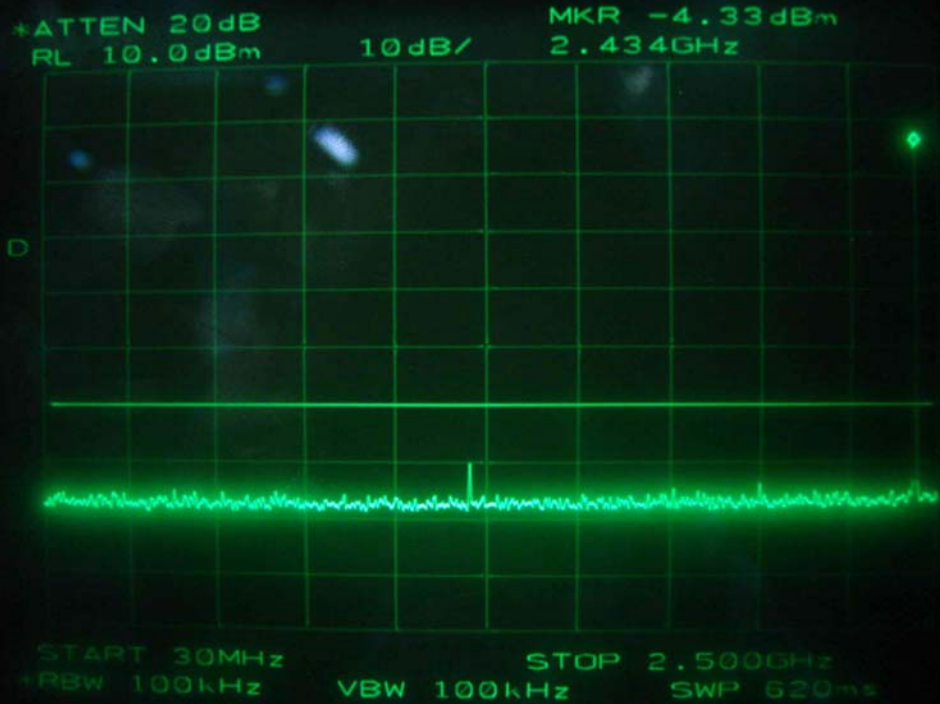
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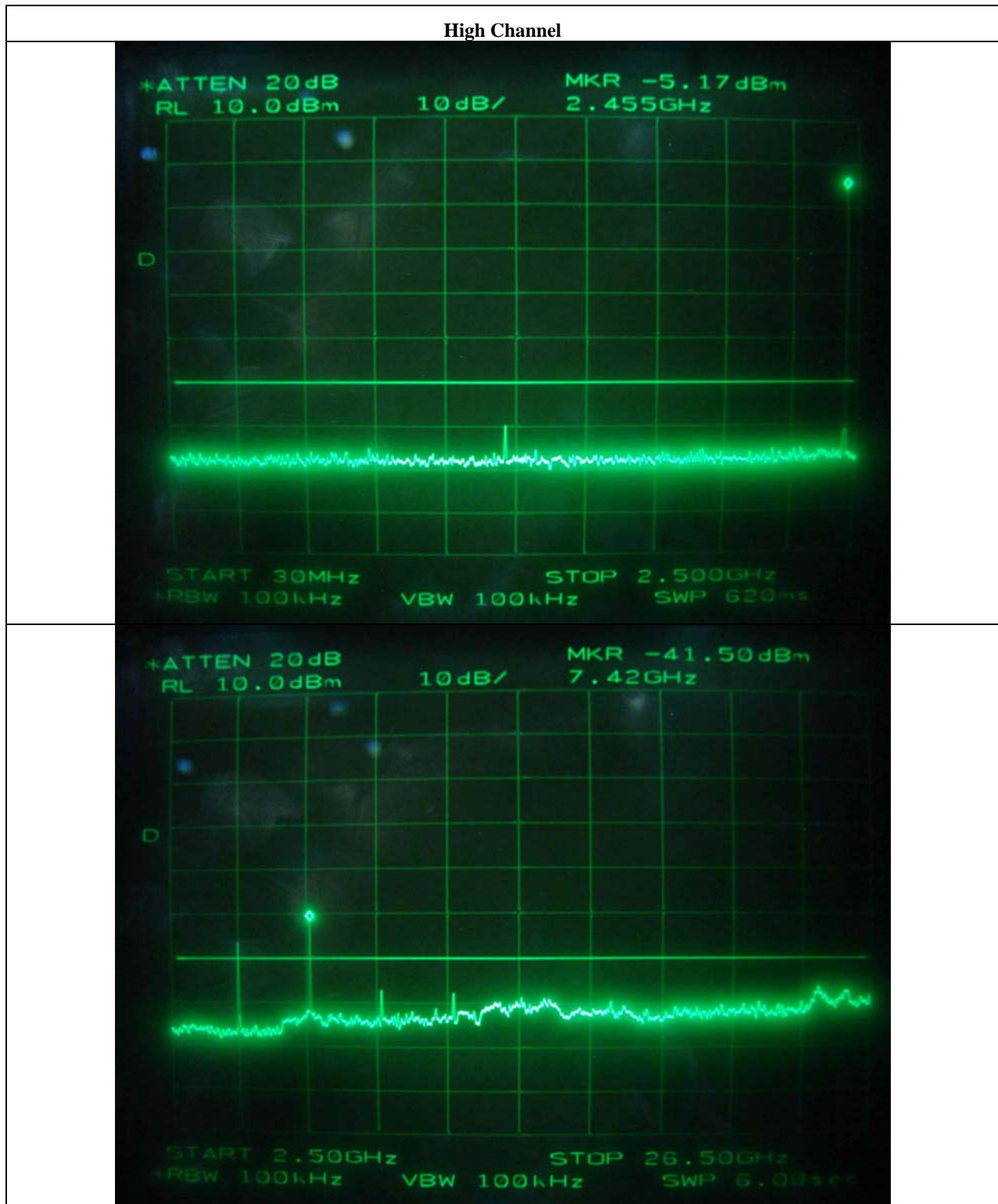
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(TEL: 82-31-746-8500 FAX: 82-31-746-8700)

EMC Testing Dept : 307-51 Daessangryung-ri, Chowol-eup, Gwangju-si, Gyeonggi-do 464-860 Korea. (TEL: 82-31-765-8289 FAX: 82-31-766-2904)

Middle Channel





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6.4.3 Emissions Radiated Outside of the Specified Frequency Bands

6.4.3.1 Test Data for Spurious except for Harmonic above 1000MHz

Humidity Level : 45 % Temperature: 28 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.249(d)
 Result : PASSED BY -14.23 dB at 2507.94

EUT : 2.4GHz RF Wireless Presenter Date: August 01, 2007
 Operating Condition : TX mode
 Distance : 3 meters

| Frequency (MHz) | Reading (dBuV) | Detector Mode | Ant. Pol. (H/V) | Ant. Factor | Cable Loss | Amp Gain | Dist. Factor | Total (dBuV/m) | Limits (dBuV/m) | Margin (dB) |
|------------------------------|-------------------|------------------|--------------------|----------------|---------------|-------------|-----------------|-------------------|--------------------|----------------|
| Test Data for Low Channel | | | | | | | | | | |
| 2333.63* | 40.33 | Peak | H | 26.97 | 3.34 | 25.60 | N/A | 45.04 | 73.98 | -28.94 |
| | 32.67 | Average | H | | | | | 37.38 | 53.98 | -16.60 |
| | 43.83 | Peak | V | | | | | 48.54 | 73.98 | -25.44 |
| | 32.67 | Average | V | | | | | 37.38 | 53.98 | -16.60 |
| 2388.46* | 42.15 | Peak | H | 27.15 | 3.07 | 25.60 | N/A | 46.76 | 73.98 | -27.22 |
| | 32.83 | Average | H | | | | | 37.44 | 53.98 | -16.54 |
| | 42.50 | Peak | V | | | | | 47.11 | 73.98 | -26.87 |
| | 33.83 | Average | V | | | | | 38.44 | 53.98 | -15.54 |
| Test Data for Middle Channel | | | | | | | | | | |
| 2333.88* | 40.17 | Peak | H | 26.98 | 3.39 | 25.60 | N/A | 44.93 | 73.98 | -29.05 |
| | 32.65 | Average | H | | | | | 37.41 | 53.98 | -16.57 |
| | 43.50 | Peak | V | | | | | 48.26 | 73.98 | -25.72 |
| | 32.33 | Average | V | | | | | 37.09 | 53.98 | -16.89 |
| 2388.78* | 42.83 | Peak | H | 27.15 | 3.07 | 25.60 | N/A | 47.44 | 73.98 | -26.54 |
| | 32.67 | Average | H | | | | | 37.28 | 53.98 | -16.70 |
| | 43.00 | Peak | V | | | | | 47.61 | 73.98 | -26.37 |
| | 33.50 | Average | V | | | | | 38.11 | 53.98 | -15.87 |

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| Test Data for High Channel | | | | | | | | | | |
|----------------------------|-------|---------|---|-------|------|-------|-----|-------|-------|--------|
| 2507.94* | 40.50 | Peak | H | 27.52 | 3.83 | 25.60 | N/A | 46.25 | 73.98 | -27.73 |
| | 33.83 | Average | H | | | | | 39.58 | 53.98 | -14.40 |
| | 43.67 | Peak | V | | | | | 49.42 | 73.98 | -24.56 |
| | 34.00 | Average | V | | | | | 39.75 | 53.98 | -14.23 |
| 2575.61* | 40.83 | Peak | H | 27.73 | 3.83 | 25.60 | N/A | 46.79 | 73.98 | -27.19 |
| | 32.67 | Average | H | | | | | 38.63 | 53.98 | -15.35 |
| | 43.18 | Peak | V | | | | | 49.14 | 73.98 | -24.84 |
| | 33.50 | Average | V | | | | | 39.46 | 53.98 | -14.52 |

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical, "*" Frequency fall in restricted band

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Tested by: Ki-Hong, Nam / Test Engineer

6.4.3.2 Test Data for Harmonic

Humidity Level : 45 %

Temperature: 28 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.249(a)

Result : PASSED BY -6.78dB at 4880.00 MHz

EUT : 2.4GHz RF Wireless Presenter

Date: August 01, 2007

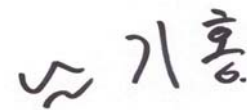
Operating Condition : TX mode

Distance : 3 meters

| Frequency (MHz) | Reading (dBuV) | Detector Mode | Ant. Pol. (H/V) | Ant. Factor | Cable Loss | Amp Gain | Dist. Factor | Total (dBuV/m) | Limits (dBuV/m) | Margin (dB) |
|---|-------------------|------------------|--------------------|----------------|---------------|-------------|-----------------|-------------------|--------------------|----------------|
| Test Data for Low Channel | | | | | | | | | | |
| 4842.00* | 37.50 | Peak | H | 31.65 | 6.63 | 25.50 | N/A | 50.27 | 73.98 | -23.71 |
| | 30.83 | Average | H | | | | | 43.60 | 53.98 | -10.38 |
| | 41.17 | Peak | V | | | | | 53.94 | 73.98 | -20.04 |
| | 32.67 | Average | V | | | | | 45.44 | 53.98 | -8.54 |
| Other frequencies were not found up to 26.5GHz. | | | | | | | | | | |
| Test Data for Middle Channel | | | | | | | | | | |
| 4880.00* | 37.17 | Peak | H | 31.71 | 6.66 | 25.50 | N/A | 50.04 | 73.98 | -23.94 |
| | 30.83 | Average | H | | | | | 43.70 | 53.98 | -10.28 |
| | 40.50 | Peak | V | | | | | 53.37 | 73.98 | -20.61 |
| | 34.33 | Average | V | | | | | 47.20 | 53.98 | -6.78 |
| Other frequencies were not found up to 26.5GHz. | | | | | | | | | | |
| Test Data for High Channel | | | | | | | | | | |
| 4920.00* | 37.67 | Peak | H | 31.78 | 6.69 | 25.50 | N/A | 50.65 | 73.98 | -23.34 |
| | 30.50 | Average | H | | | | | 43.48 | 53.98 | -10.51 |
| | 40.83 | Peak | V | | | | | 53.81 | 73.98 | -20.18 |
| | 33.83 | Average | V | | | | | 46.81 | 53.98 | -7.18 |
| Other frequencies were not found up to 26.5GHz. | | | | | | | | | | |

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical, "*" Frequency fall in restricted band



Tested by: Ki-Hong, Nam / Test Engineer

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6.4.3.3 Test Data for Spurious except for Harmonic below 1000MHzHumidity Level : 45 %Temperature: 28 °CLimits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.249(d)Result : PASS

EUT : 2.4GHz RF Wireless Presenter

Date: August 01, 2007

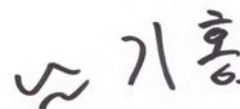
Operating Condition : TX mode

Distance : 3 meters

| Frequency (MHz) | Reading (dBuV) | Ant. Pol. (H/V) | Ant. Factor (dB/m) | Cable Loss | Emission Level(dBuV/m) | Limits (dBuV/m) | Margin (dB) |
|---|-------------------|--------------------|-----------------------|---------------|---------------------------|--------------------|----------------|
| | | | | | | | |
| | | | | | | | |
| It was not observed any emissions from the EUT. | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Tabulated test data for Radiated Electromagnetic Field

Remark: "H": Horizontal, "V": Vertical



Tested by: Ki-Hong, Nam / Test Engineer