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FCC PART 15 SUBPART B TEST REPORT

47 CFR FCC Part 15 Subpart B

Report Reference No...... WE10050003

FCC ID...... XLU83924791

Compiled by

(position+printed name+signature)..: File administrators Wenliang Li

Supervised by

(position+printed name+signature)..: Test Engineer Xiankun Ding

Approved by

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

Date of issue...... Jul 01, 2010

Testing Laboratory Name Shenzhen Huatongwei International Inspection Co., Ltd

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

Applicant's name...... Activision Publishing,Inc.

Test specification:

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

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Test item description: Wireless Skateboard Receiver for Playstation 3

Trade Mark:

Model/Type reference...... 83924791

Listed Models /

Result..... Positive

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TEST REPORT

Test Report No. : WE10050003 Jul 01, 2010

Date of issue

Equipment under Test : Wireless Skateboard Receiver for Playstation 3

Model /Type : 83924791

Listed Models : /

Applicant : Activision Publishing,Inc.

Address : 3100 Ocean Park Blvd., Santa Monica, CA 90405, U.S.A.

Manufacturer : Honey Bee Electronic International Ltd.

Address : Flat L,12/F,Phase 4,Kwun Tong Industrial Centre,436-446

Kwun Tong Road, Kowloon, Hong Kong

Test Result according to the standards on page 4:	Positive
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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.

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1. TEST STANDARDS

The tests were performed according to following standards:

47 CFR FCC Rules Part 15 Subpart B: Radio Frequency Devices – Unintentional Radiators – Limits and methods of measurement.

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2. SUMMARY

2.1. General Remarks

Date of receipt of test sample : May 06, 2010

Testing commenced on : May 06, 2010

Testing concluded on : May 11, 2010

2.2. Equipment Under Test

Power supply system utilised

Power supply voltage : ● 120V / 60 Hz ○ 115V / 60Hz

○ 12 V DC ○ 24 V DC

Other (specified in blank below)

DC 5V from USB

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

Wireless Skateboard Receiver for Playstation 3

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

Serial number: Prototype

2.4. EUT operation mode

The EUT has been tested under typical operating condition.

2.5. EUT configuration

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

O - supplied by the manufacturer

supplied by the lab

Notebook PC
 Manufacturer: DELL

Model No.: PP11L

PrinterManufacturer: HP

Model No.: Laserjet 6L C3990A

Gigabit SwitchManufacturer: D-Link

Model No.: DGS-1005D

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

This submittal(s) (test report) is intended for FCC ID: **XLU83924791** filing to comply with the FCC Part 15, Subpart B Rules.

2.7. Modifications

No modifications were implemented to meet testing criteria.

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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 30, 2009. Valid time is until Mar 29, 2012.

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, 2011.

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 Jun 01, 2009.

IC-Registration No.: 5377

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. 5377 on November Feb 13, 2009. Valid time is until Feb 13, 2011.

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.

NEMKO-Aut. No.: ELA125

Shenzhen Huatongwei International Inspection Co., Ltd has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025:2005 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10, the Authorization is valid through July 07, 2011.

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.: R-2484. Date of Registration: December 20, 2006. Valid time is until December 20, 2012.

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: December 20, 2006. Valid time is until December 19, 2012.

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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 Jul 09, 2010.

3.3. Environmental conditions

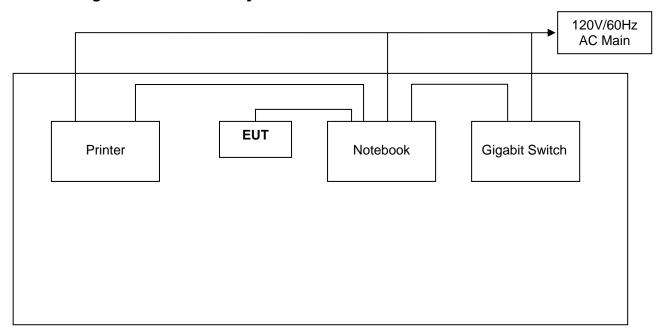
During the measurement the environmental conditions were within the listed ranges:

Temperature: 15-35 ° C

Humidity: 30-60 %

Atmospheric pressure: 950-1050mbar

3.4. Configuration of Tested System



Equipment Used in Tested System

No.	Equipment	Manufacturer	Model No.	Serial No.
1	Notebook PC	DELL	PP11L	H5917A01
2	Printer	HP	Laserjet 6L C3990A	JPZP024664
3	Gigabit Switch	D-Link	DGS-1005D	DRJP576000511

3.5. 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	4.22dB	(1)
Radiated Emission	1~12.75GHz	4.35dB	(1)
Conducted Disturbance	0.15~30MHz	3.29dB	(1)

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

3.6. Equipments Used during the Test

AC Po	AC Power Conducted Emission							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.			
1	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESCI	100106	2009/11			
2	ARTIFICIAL MAINS	ROHDE & SCHWARZ	ESH2-Z5	100028	2009/11			
3	PULSE LIMITER	ROHDE & SCHWARZ	ESHSZ2	100044	2009/11			
4	EMI TEST SOFTWARE	ROHDE & SCHWARZ	ES-K1 1.71	N/A	2009/11			

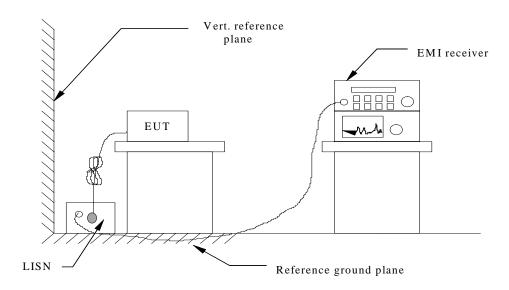
Radia	Radiated Emissions							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.			
1	ULTRA-BROADBAND ANTENNA	ROHDE & SCHWARZ	HL562	100015	2009/11			
2	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESI 26	100009	2009/11			
3	RF TEST PANEL	ROHDE & SCHWARZ	TS / RSP	335015/ 0017	2009/11			
4	TURNTABLE	ETS	2088	2149	2009/11			
5	ANTENNA MAST	ETS	2075	2346	2009/11			
6	EMI TEST SOFTWARE	ROHDE & SCHWARZ	ESK1	N/A	2009/11			

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4. TEST CONDITIONS AND RESULTS

4.1. Conducted Emissions Test

TEST CONFIGURATION



TEST PROCEDURE

- 1 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.
- 2 Support equipment, if needed, was placed as per ANSI C63.4.
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4 The EUT received DC power from the PC, and the PC 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.
- 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:

Eroauonov	Maximum RF Line Voltage (dBμV)					
Frequency (MHz)	CLASS A		CLASS B			
(mi i2)	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		

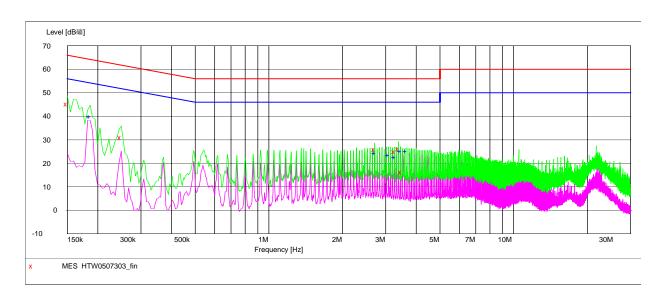
^{*} Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

TEST RESULTS

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

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "HTW0507303_fin"

5/7/2010 8:57AM

- /	.,							
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0.150000	45.20	10.1	66	20.8	QP	L1	GND
	0.249000	30.90	10.1	62	30.9	QP	L1	GND
	2.715000	25.80	10.2	56	30.2	QP	L1	GND
	3.268500	25.10	10.2	56	30.9	QP	L1	GND
	3.394500	26.00	10.2	56	30.0	QP	L1	GND
	3.489000	16.20	10.2	56	39.8	QP	L1	GND

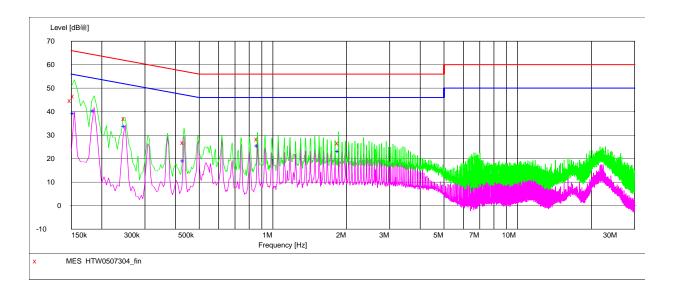
MEASUREMENT RESULT: "HTW0507303_fin2"

5/7/2010 8:57AM

5 /	7/2010 0-571	11.1						
	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dΒμV	dВ	dΒμV	dВ			
	0.186000	39.90	10.1	54	14.3	AV	L1	GND
	2.715000	24.50	10.2	46	21.5	AV	L1	GND
	3.084000	23.50	10.2	46	22.5	AV	L1	GND
	3.268500	22.60	10.2	46	23.4	AV	L1	GND
	3.457500	25.20	10.2	46	20.8	AV	L1	GND
	3.642000	25.20	10.2	46	20.8	AV	L1	GND

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

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "HTW0507304_fin"

5/7/2010 9	:08AM						
Frequenc	y Level	Transd	Limit	Margin	Detector	Line	PE
MH	z dBuV	dВ	dBuV	dВ			
	·		·				
0.15000	0 44.70	10.1	66	21.3	QP	N	GND
0.15450	0 46.60	10.1	66	19.2	QP	N	GND
0.24900	0 37.10	10.1	62	24.7	QP	N	GND
0.43350	0 26.80	10.1	57	30.4	QP	N	GND
0.87000	0 28.40	10.1	56	27.6	QP	N	GND

1.860000 26.70 10.2 56 29.3 QP N GND

MEASUREMENT RESULT: "HTW0507304_fin2"

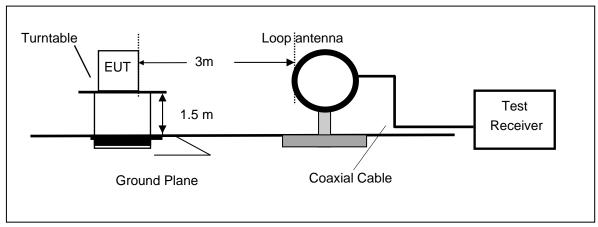
5/	7/2010 Freque	9:10 ncy MHz	AM Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0 154	0.00	20 50	10 1		15 5	7.7.	3.7	CNTD
	0.154	000	39.50	10.1	55	15.5	AV	N	GND
	0.186	000	40.50	10.1	54	13.7	AV	N	GND
	0.249	000	33.80	10.1	52	18.0	AV	N	GND
	0.433	500	19.20	10.1	47	28.0	AV	N	GND
	0.870	000	25.50	10.1	46	20.5	AV	N	GND
	1.860	000	23.20	10.2	46	22.8	AV	N	GND

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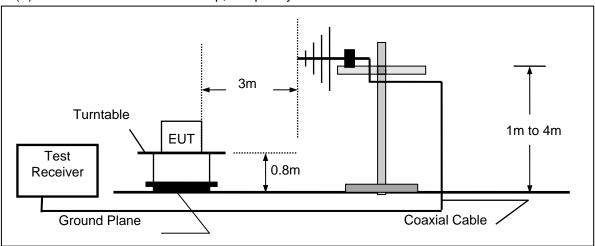
4.2. Radiated Emission Test

TEST CONFIGURATION

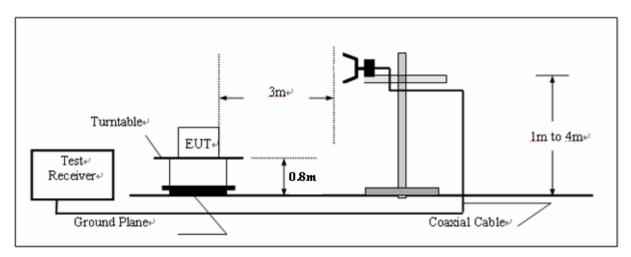
(A) Radiated Emission Test Set-Up, Frequency below 30MHz



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



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



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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.

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:

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

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

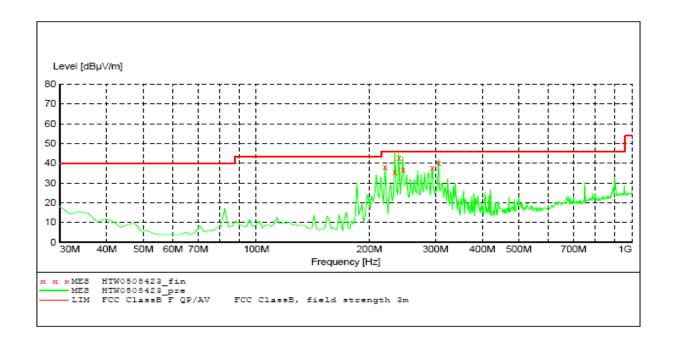
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

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TEST RESULTS

Operation Mode: Normal Operation Temperature: 20 C Humidity: 70 % RH Polarity: Ver. / Hor.

SCAN TABLE: "test Field(30M-1G)OP"
Short Description: Field Str Field Strength (30M-1G) Start Stop Step Detector Meas. IF Transducer Frequency Frequency Width Bandw. Time 60.0 kHz 1.0 GHz QuasiPeak 1.0 s 30.0 MHz 120 kHz HL562 09



MEASUREMENT RESULT: "HTW0508423_fin"

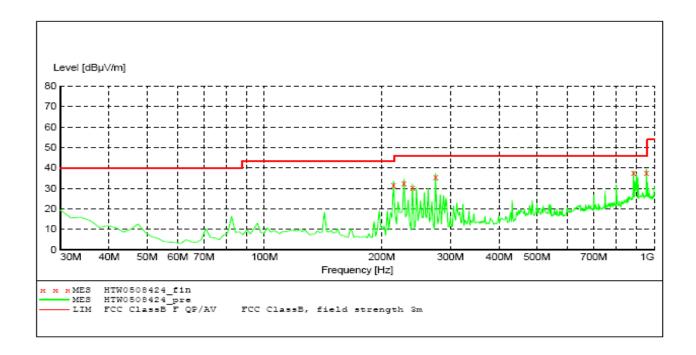
5/9/2010 4:38	BAM							
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
220.500000	38.00	-20.3	7.4	10.5	QP	100.0	103.00	HORIZONTAL
234.060000	35.50	-19.1	46.0	10.5	QP	127.0	309.00	HORIZONTAL
240.000000	42.70	-18.9	46.0	3.3	QP	100.0	75.00	HORIZONTAL
246.060000	36.50	-18.6	46.0	9.5	QP	100.0	86.00	HORIZONTAL
294.350000	37.70	-16.9	46.0	8.3	QP	100.0	304.00	HORIZONTAL
306.000000	40.00	-16.9	46.0	6.0	QP	100.0	345.00	HORIZONTAL

Remark:

- (1) Measuring frequencies from 30 MHz to the 1 GHz.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of EMI Test Receiver was 120KHz for measuring from 30 MHz to 1 GHz and 1 MHz for measuring above 1 GHz

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SCAN TABLE: "test Field(30M-1G)OP"
Short Description: Field Strength(30M-1G) Stop Step Detector Meas. IF
Frequency Frequency Width Time Bandw.
30.0 MHz 1.0 GHz 60.0 kHz QuasiPeab 1 ^ -Transducer 120 kHz HL562 09



MEASUREMENT RESULT: "HTW0508424 FIN"

5/9/2010 4:42AM								
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
214.670000	31.40	-20.6	43.5	12.1	QP	100.0	116.00	VERTICAL
228.280000	32.40	-19.4	46.0	13.6	QP	100.0	321.00	VERTICAL
239.940000	30.30	-18.9	46.0	15.7	QP	100.0	328.00	VERTICAL
274.923000	35.30	-17.9	46.0	10.7	QP	100.0	207.00	VERTICAL
885.310000	37.40	-4.9	46.0	8.6	QP	100.0	126.00	VERTICAL
955.290000	37.50	-3.3	46.0	8.5	QP	100.0	23.00	VERTICAL

Remark:

- (1) Measuring frequencies from 30 MHz to the 1 GHz.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of EMI Test Receiver was 120KHz for measuring from 30 MHz to 1 GHz and 1 MHz for measuring above 1 GHz

5. Test Setup Photos of the EUT





6. External and Internal Photos of the EUT

External Photos

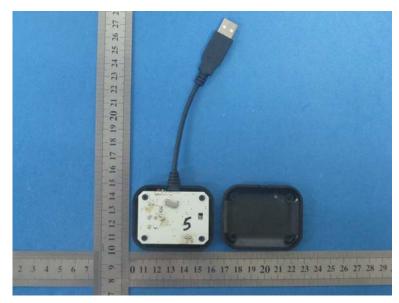




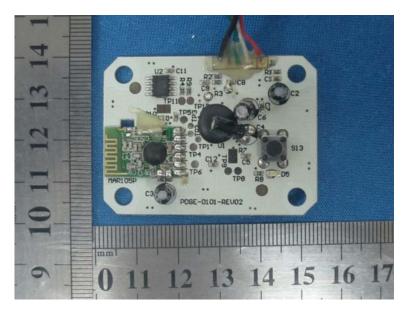




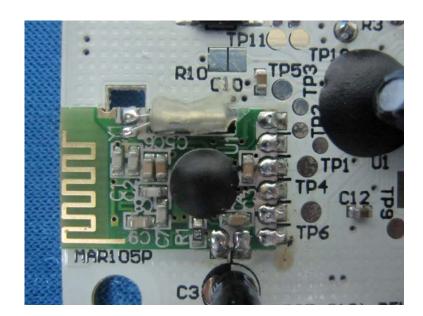
Internal Photos







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