

APPLICATION FOR CERTIFICATION
On Behalf of

Activision Publishing, Inc.

Wireless Rod and Reel Controller for PlayStation 3

Model Number: 76410800

FCC ID: XLU76410800

Prepared for : Activision Publishing, Inc.
3100 Ocean Park Blvd., Santa Monica, CA 90405, U.S.A.

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
Shenzhen Science & Industrial Park,
Nantou, Shenzhen, Guangdong, China

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Report Number : ACS-F10243
Date of Test : Aug.20~24, 2010
Date of Report : Aug.25, 2010

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TEST REPORT CERTIFICATION

Applicant : Activision Publishing, Inc.
 Manufacturer : Sunlight Technology Electronic Manufacturing Co., Ltd.
 EUT Description : Wireless Rod and Reel Controller for PlayStation 3
 MODEL NO. : 76410800
 FCC ID : XLU76410800
 POWER SUPPLY : DC 3V
 TEST VOLTAGE : DC 3V

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 2008

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits for radiated and conducted emissions.

The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy and completeness of tests. Also, this report shows that EUT is technically compliant with FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shenzhen) Co., Ltd.

Date of Test : Aug.20~24, 2010

Prepared by : Selina Liu
Selina Liu / Assistant

Reviewer : Jamy Yu
Jamy Yu / Supervisor

Approved & Authorized Signer : Ken Lu 8/16
Ken Lu / Manager



1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15C: 15.207 ANSI C63.10-2009	N/A
Radiated Emission Test	FCC Part 15C: 15.209 FCC Part 15C: 15.249 ANSI C63.10-2009	PASS
Band Edge Compliance Test	FCC Part 15: 15.249 ANSI C63.10-2009	PASS
20dB Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10-2009	PASS
N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product name : Wireless Rod and Reel Controller for PlayStation 3

Model Number : 76410800

FCC ID : XLU76410800

Operation frequency : 2403MHz~2475MHz

Modulation : GFSK

Power Supply : DC 3V
(Note: Batteries were full charged for all the test.)

Applicant : Activision Publishing, Inc.
3100 Ocean Park Blvd., Santa Monica, CA 90405, U.S.A.

Manufacturer : Sunlight Technology Electronic Manufacturing Co., Ltd.
New Asia Industrial City, Lin Village, Tangxia Town,
Dongguan City, China.

Date of Test : Aug.20~24, 2010

Date of Receipt : Jul.28, 2010

Sample Type : Prototype production

2.2. Test Facility

Site Description

Name of Firm

: Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block, Shenzhen
Science & Industrial Park, Nantou,
Shenzhen, Guangdong, China

3m Anechoic Chamber

: Mar.31, 2009 File on Federal
Communication Commission
Registration Number: 90454

3m & 10m Anechoic Chamber : Dec. 30, 2009 File on Federal
Communication Commission
Registration Number: 794232

EMC Lab.

: Accredited by DATech, German
Registration Number: DAT-P-091/99-01
Feb. 02, 2009

Accredited by NVLAP, USA
NVLAP Code: 200372-0
Apr. 01, 2010

2.3. Test Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Radiation Emission test in 3m chamber	3.82 dB (Polarize: V)
	4.32 dB (Polarize: H)
Uncertainty for Radiated Spurious Emission test in RF chamber	2.70 dB (Bilog antenna 30M~1000MHz)
	2.27 dB (Horn antenna 1000M~25000MHz)
Uncertainty for Temperature and humidity test	2%
	1°C
Uncertainty for Bandwidth test	1x10 ⁻⁹
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

3. POWER LINE CONDUCTED EMISSION TEST

According to Paragraph (c) of FCC Part 15 section 15.207, Tests to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

4. RADIATED EMISSION TEST

4.1. Test Equipment

Frequency rang: 30~1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Dec.05,09	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 10	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 10	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 10	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Dec.14, 09	1 Year
6	RF Cable	MIYAZAKI	8D-FB	3# Chamber No.1	May.08, 10	1 Year
7	Coaxial Switch	Anritsu	MP59B	M73989	May.08, 10	1 Year

Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 10	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 09	1.5 Year
3	Horn Antenna	EMCO	3116	00060089	Nov.25, 09	1.5 Year
4	Amplifier	Agilent	8449B	3008A00863	May.08, 10	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08, 10	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX102	29091/2	May.08, 10	1 Year

4.2. Block Diagram of Test Setup

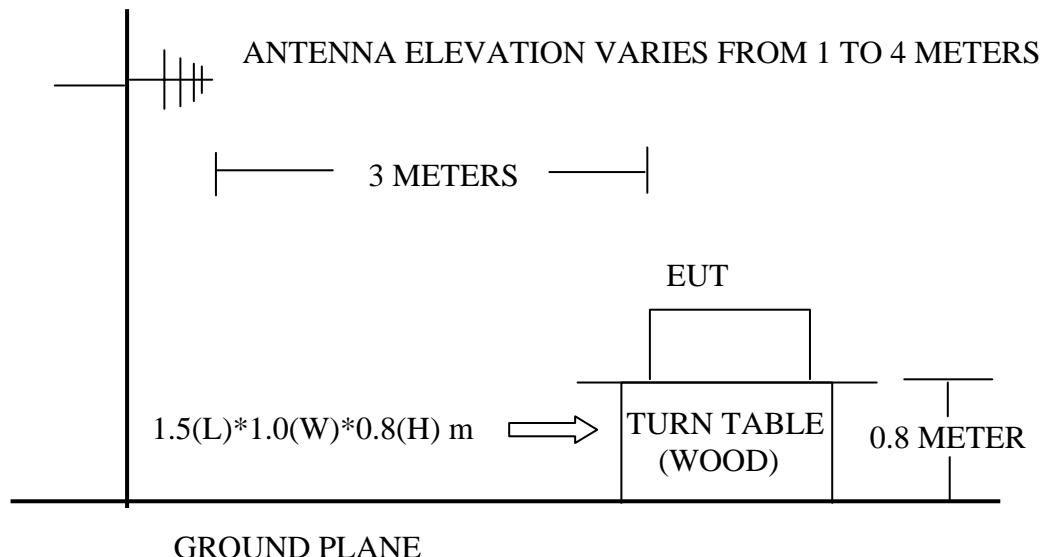
4.2.1. Block Diagram of connection between EUT and simulators



(EUT: Wireless Rod and Reel Controller for PlayStation 3)

4.2.2. Anechoic Chamber Setup Diagram

ANTENNA TOWER



4.3. Radiated Emission Limit Standard: FCC 15.209 and 15.249

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μ V/m	dB(μ V)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	
Field Strength of Fundamental emission for 2.4GHz-2.4835GHz	3	94.0 dB(μ V)/m (Average) 114.0 dB(μ V)/m(Peak)	
Field Strength of Harmonics	3	74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	

Remark :

- (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
- (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.5. Operating Condition of EUT

4.5.1. Setup the EUT as shown in Section 4.2..

4.5.2. Turned on the power of all equipment.

4.5.3. Let the EUT worked in test mode (Tx Mode) and tested it.

4.6. Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2009 on radiated emission Test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as the test photo indicated.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz and PK detector for peak emissions measurement above 1GHz except fundamental emissions.

For fundamental emissions, the emissions bandwidth is around 2MHz, so RBW is set at 2MHz and VBW is set at 3MHz and peak detector for fundamental emissions peak measurements.

This device is pulse modulated, a duty cycle factor was used to calculate average level based measured peak level.

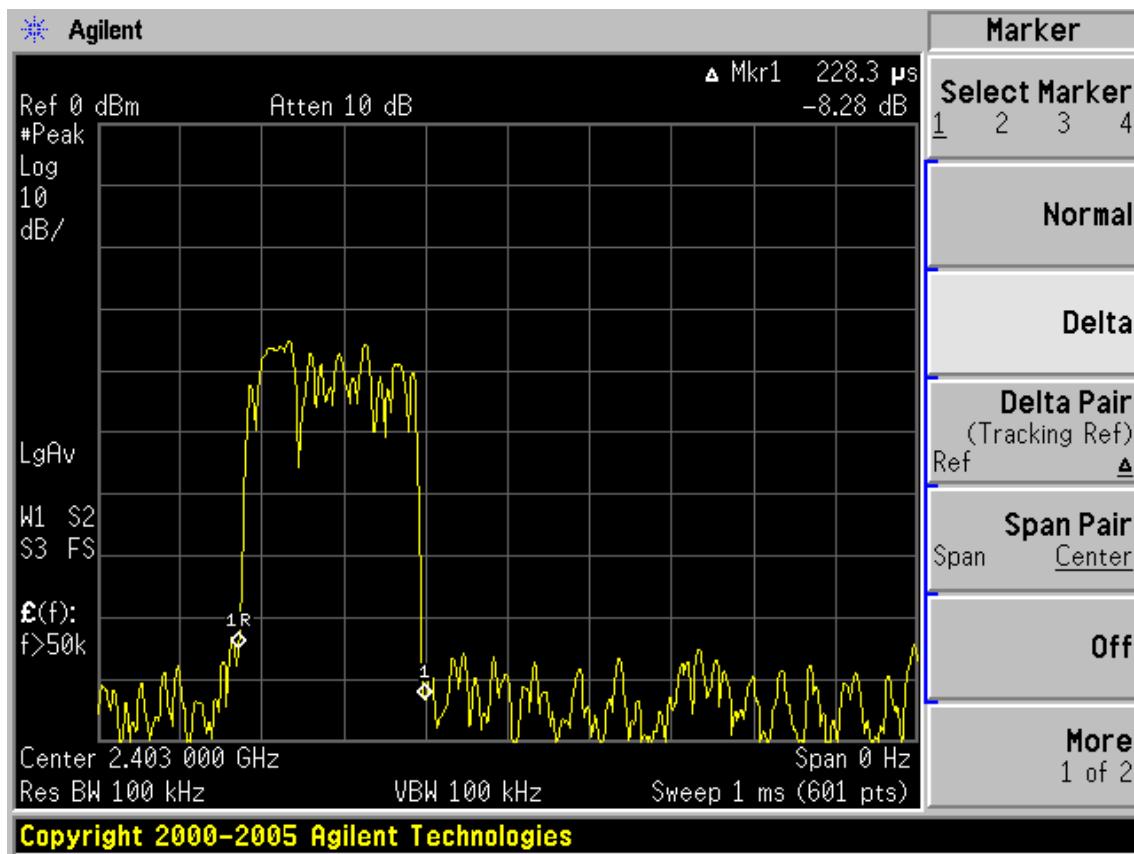
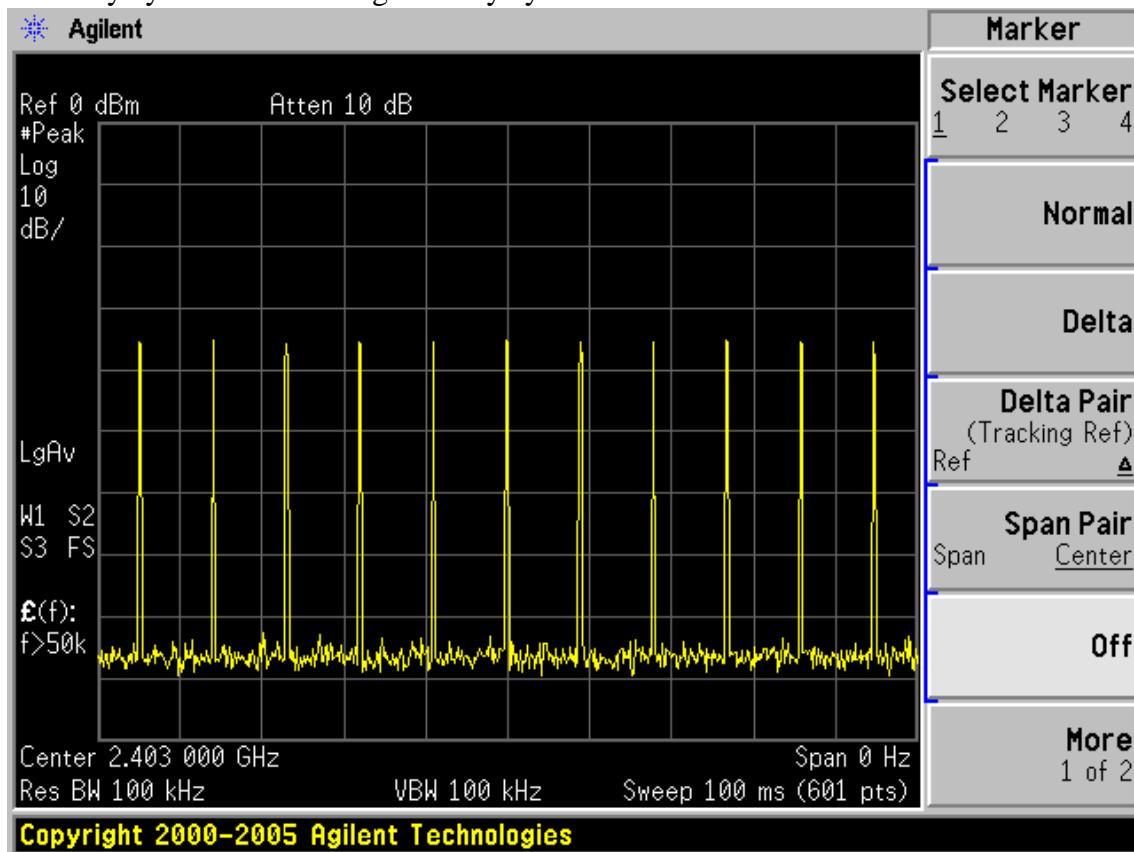
The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

4.7. Radiated Emission Test Results

PASS

All the emissions from 30MHz to 25GHz were comply with the 15.209 and 15.249 Limit.

Note: The duty cycle factor for calculate average level is 32.00dB, and average limit is 20dB below peak limit, so if peak measured level comply with peak limit, the average level was deemed to comply with average limit.

Duty cycle: $0.2283\text{ms} * 11/100\text{ms} * 100\% = 2.51\%$ Duty cycle factor = $20\log (1/\text{duty cycle}) = 32.00\text{dB}$ 

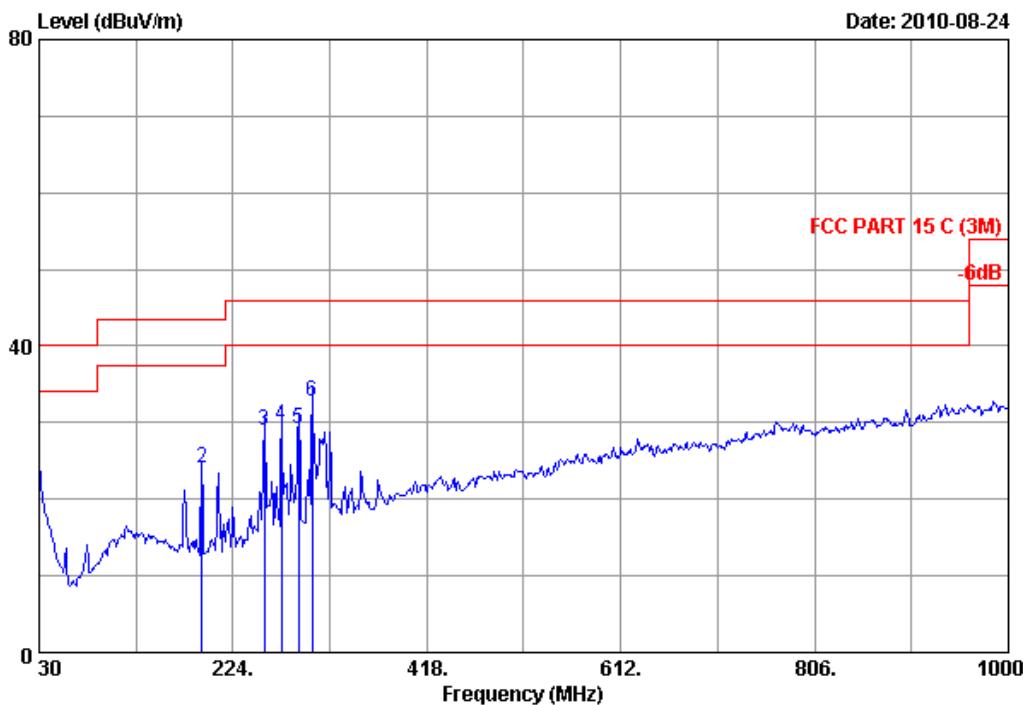
Radiated spurious emissions from 30MHz to 1GHz test result



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Data: 8

File: D:\2010 Report Data\A\ACTIVISION\ACS10QH191.EM6 (12)



Site no. : 3m Chamber Data no. : 8
Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 24°C/56% Engineer : Paul Tian
EUT : Wireless Rod and Reel Controller for PlayStation 3
Power rating : DC 3V
Test Mode : Tx Mode
M/N : 76410800

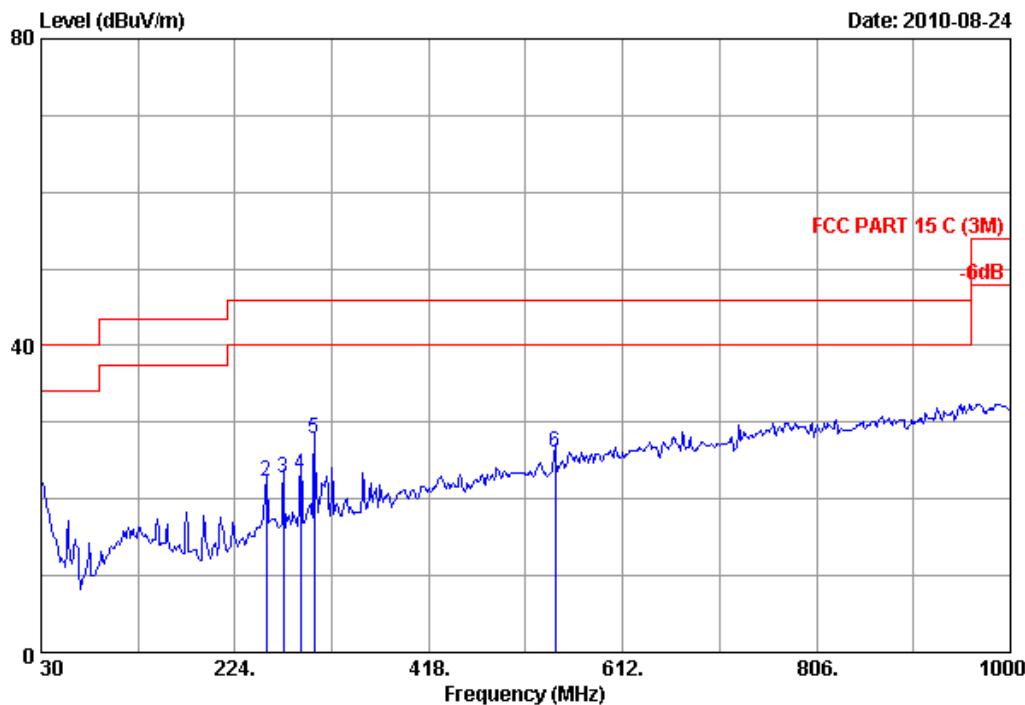
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	20.00	0.61	1.81	22.42	40.00	17.58	QP
2	192.960	9.58	1.64	12.78	24.00	43.50	19.50	QP
3	255.040	13.30	2.20	13.50	29.00	46.00	17.00	QP
4	272.500	13.25	2.31	14.18	29.74	46.00	16.26	QP
5	289.960	13.60	2.42	13.22	29.24	46.00	16.76	QP
6	303.540	13.81	2.50	16.54	32.85	46.00	13.15	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 7 File: D:\2010 Report Data\A\ACTIVISION\ACS10QH191.EM6 (12)



Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2010 CBL6111C Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/56% Engineer : Paul Tian
 EUT : Wireless Rod and Reel Controller for PlayStation 3
 Power rating : DC 3V
 Test Mode : Tx Mode
 M/N : 76410800

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	20.00	0.61	0.57	21.18	40.00	18.82	QP
2	255.040	13.30	2.20	6.71	22.21	46.00	23.79	QP
3	272.500	13.25	2.31	7.24	22.80	46.00	23.20	QP
4	289.960	13.60	2.42	7.18	23.20	46.00	22.80	QP
5	303.540	13.81	2.50	11.51	27.82	46.00	18.18	QP
6	544.100	18.60	3.80	3.70	26.10	46.00	19.90	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Radiated emissions from 1GHz to 18GHz (include fundamental) test result

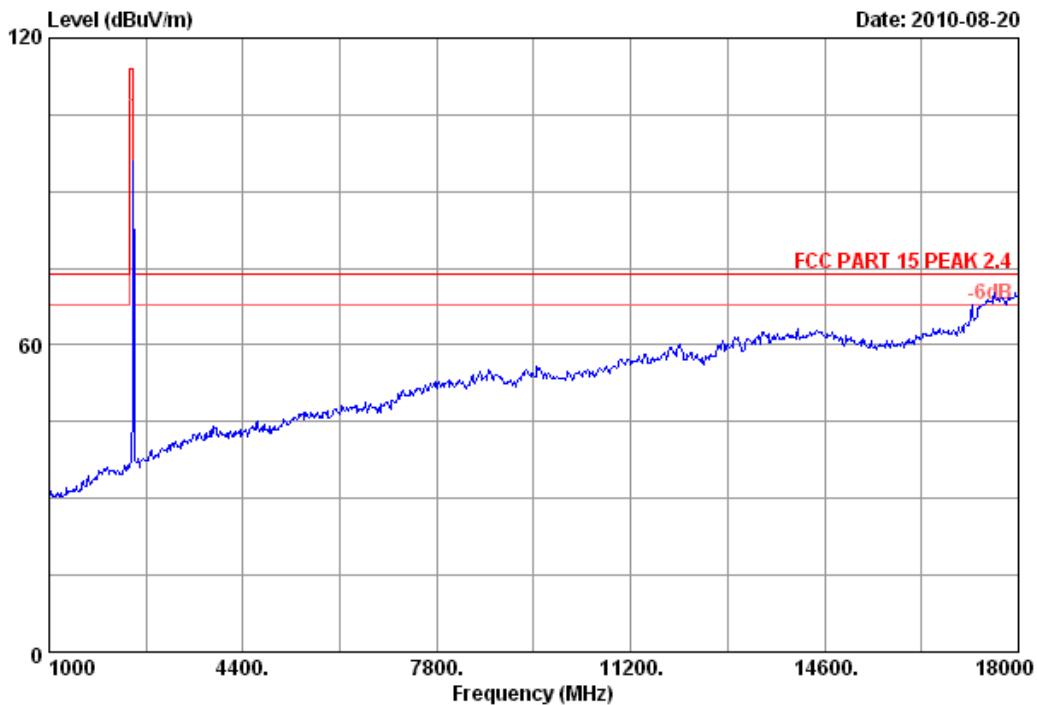


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Data: 6

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Date: 2010-08-20

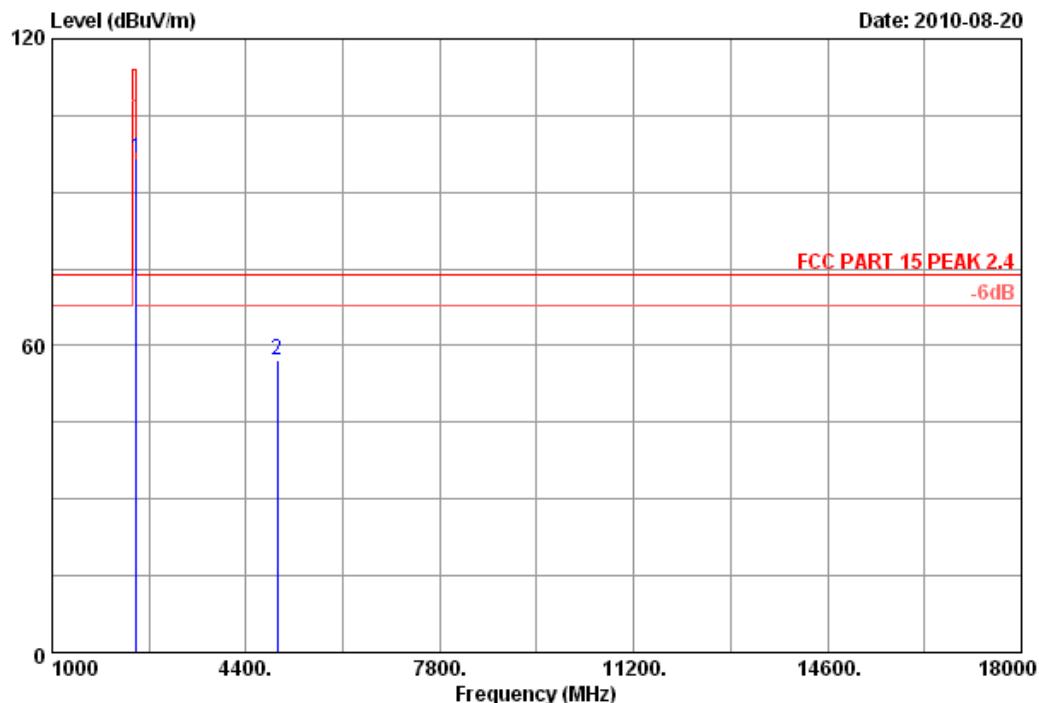


Site no.	:	10m Chamber	Data no. :	6
Dis. / Ant.	:	3m 3115(0911)	Ant. pol. :	VERTICAL
Limit	:	FCC PART 15 PEAK 2.4		
Env. / Ins.	:	23*C/54%	Engineer :	Leo-Li
EUT	:	Wireless Rod and Reel Controller for PlayStation 3		
Power	:	DC 3V		
Test mode	:	Tx 2475MHz		
M/N	:	76410800		



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Site no. : 10m Chamber Data no. : 7
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless Rod and Reel Controller for PlayStation 3
Power : DC 3V
Test mode : Tx 2475MHz
M/N : 76410800

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin		
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2475.000	29.49	7.54	36.60	96.07	96.50	114.00	17.50	Peak
2	4950.000	34.52	10.78	34.95	46.84	57.19	74.00	16.81	Peak

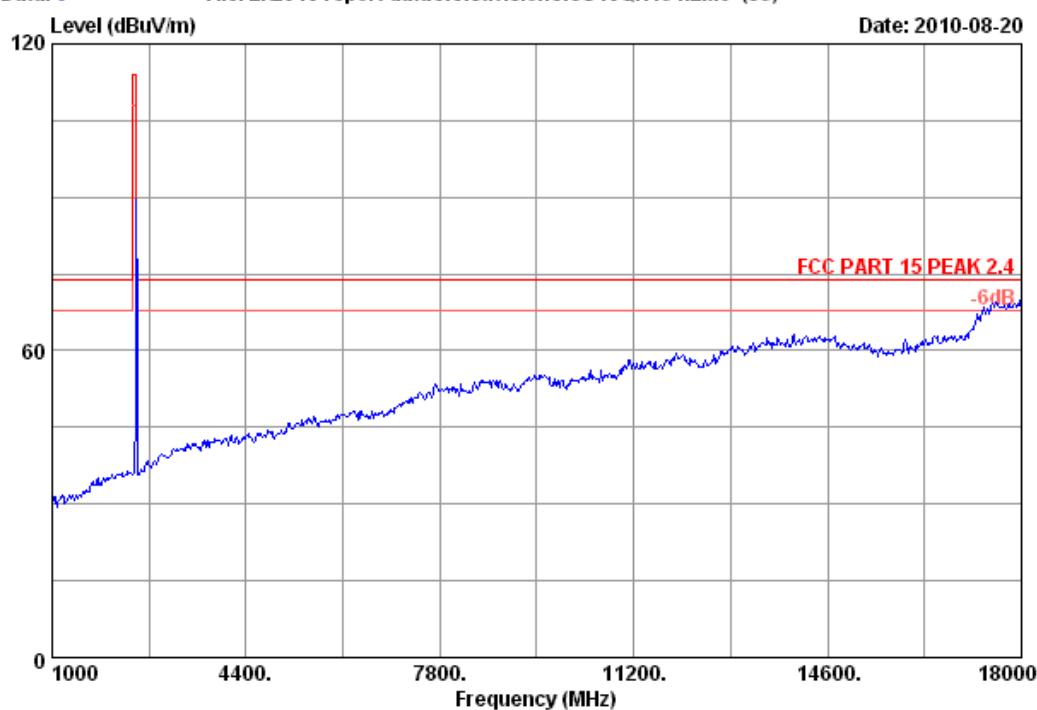
Remarks:

1. Emission Level = Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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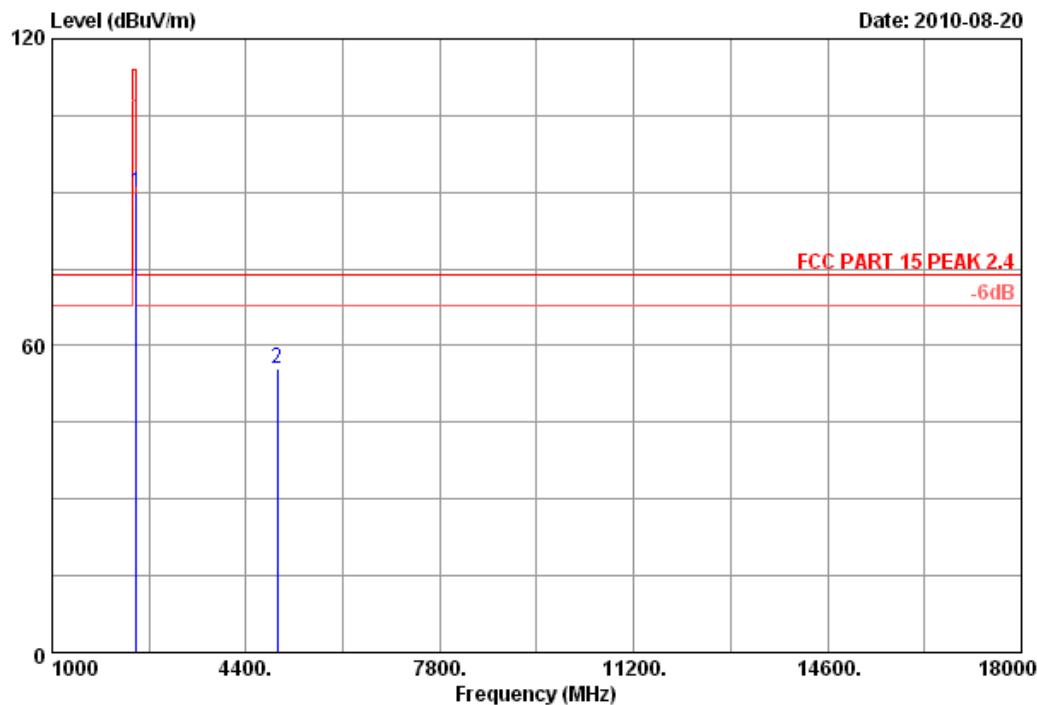


Site no.	: 10m Chamber	Data no. :	8
Dis. / Ant.	: 3m 3115(0911)	Ant. pol. :	HORIZONTAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer :	Leo-Li
EUT	: Wireless Rod and Reel Controller for PlayStation 3		
Power	: DC 3V		
Test mode	: Tx 2475MHz		
M/N	: 76410800		



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Site no. : 10m Chamber Data no. : 9
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless Rod and Reel Controller for PlayStation 3
Power : DC 3V
Test mode : Tx 2475MHz
M/N : 76410800

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2475.000	29.49	7.54	36.60	89.35	89.78	114.00	24.22	Peak
2 4950.000	34.52	10.78	34.95	45.02	55.37	74.00	18.63	Peak

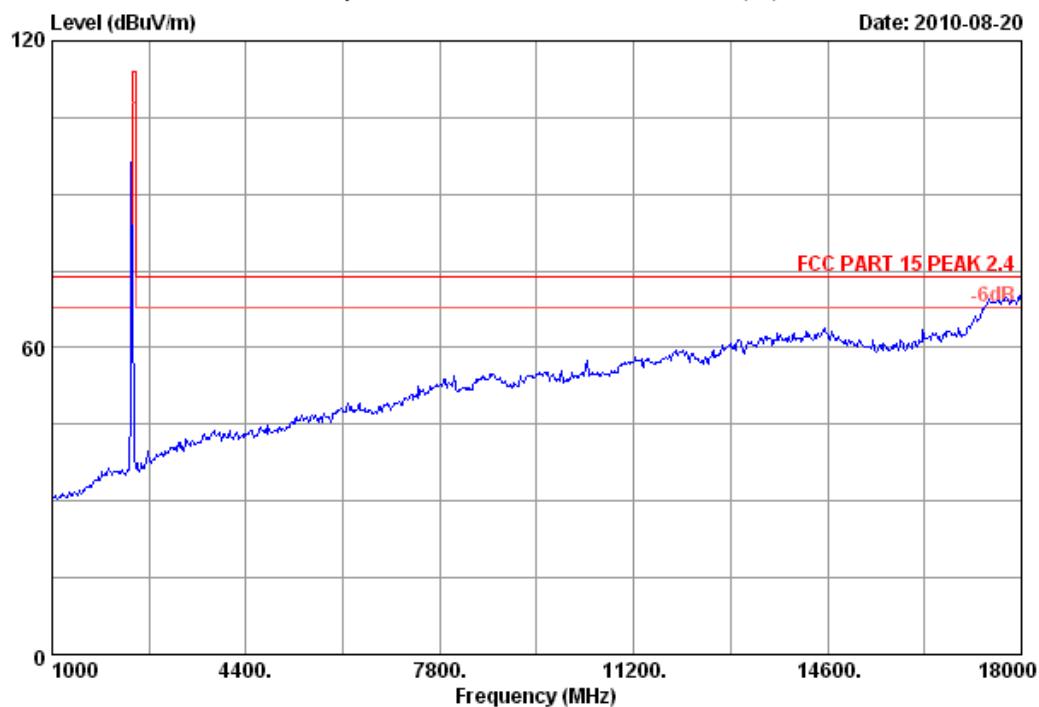
Remarks:

1. Emission Level = Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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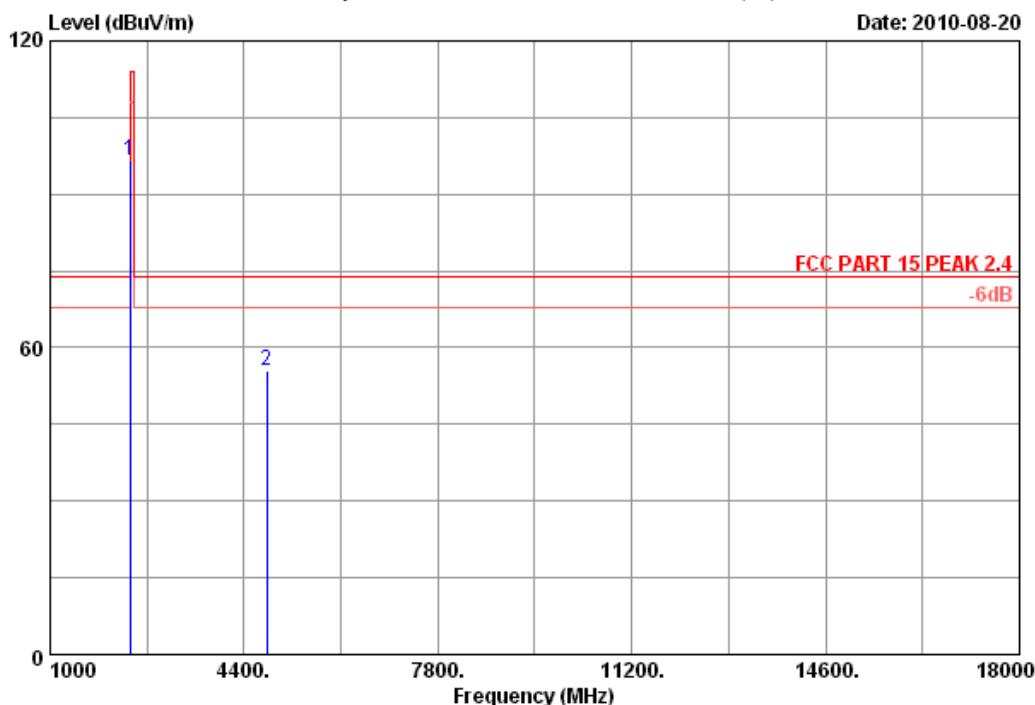


Site no.	: 10m Chamber	Data no.	: 10
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer	: Leo-Li
EUT	: Wireless Rod and Reel Controller for PlayStation 3		
Power	: DC 3V		
Test mode	: Tx 2403MHz		
M/N	: 76410800		



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Site no. : 10m Chamber Data no. : 11
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless Rod and Reel Controller for PlayStation 3
Power : DC 3V
Test mode : Tx 2403MHz
M/N : 76410800

Freq. (MHz)	Ant. (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2403.000	29.45	7.43	36.62	96.48	96.74	114.00	17.26	Peak
2 4806.000	34.30	10.62	35.10	45.58	55.40	74.00	18.60	Peak

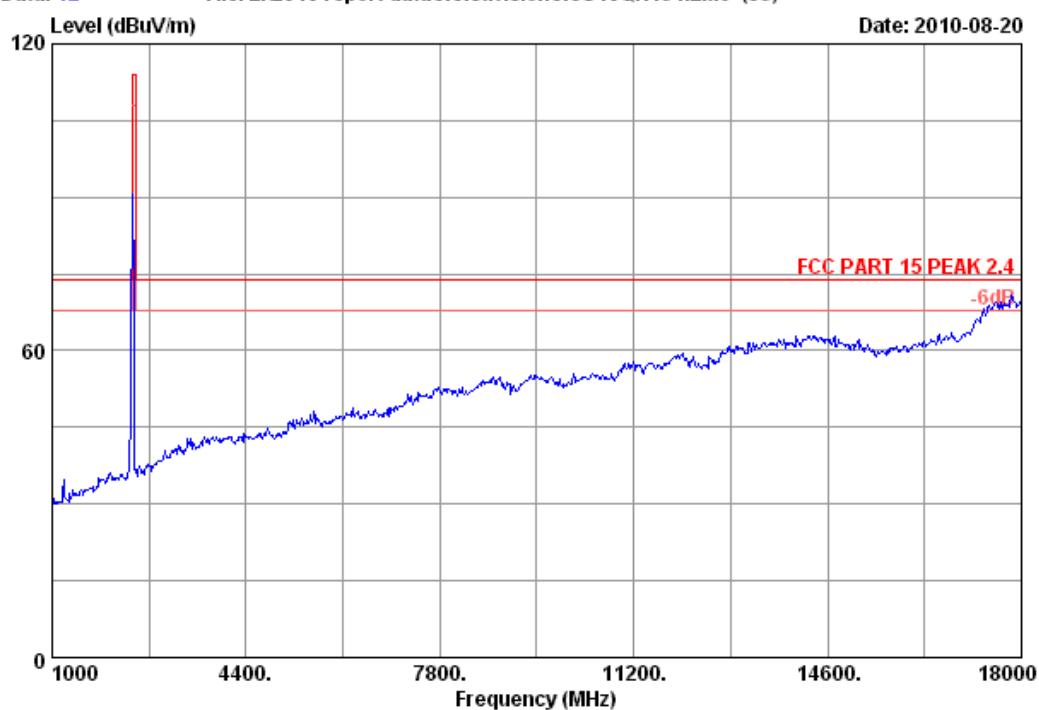
Remarks:

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2. The emission levels that are 20dB below the official limit are not reported.



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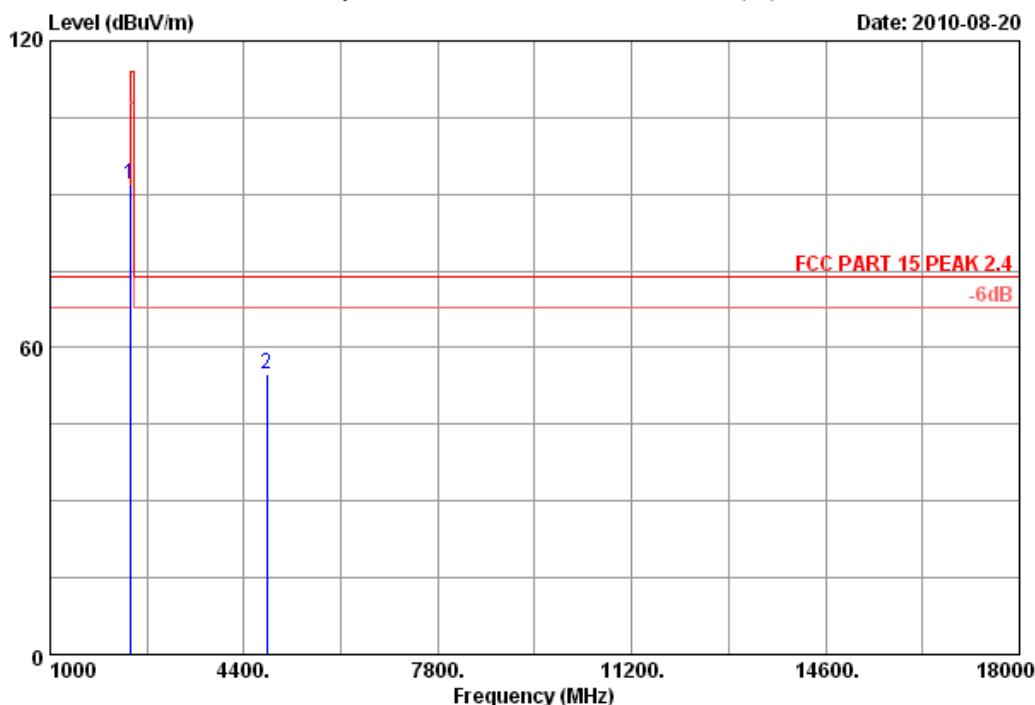


Site no.	: 10m Chamber	Data no.	: 12
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer	: Leo-Li
EUT	: Wireless Rod and Reel Controller for PlayStation 3		
Power	: DC 3V		
Test mode	: Tx 2403MHz		
M/N	: 76410800		



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Site no. : 10m Chamber Data no. : 13
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless Rod and Reel Controller for PlayStation 3
Power : DC 3V
Test mode : Tx 2403MHz
M/N : 76410800

Freq. (MHz)	Ant. (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2403.000	29.45	7.43	36.62	91.76	92.02	114.00	21.98	Peak
2 4806.000	34.30	10.62	35.10	44.87	54.69	74.00	19.31	Peak

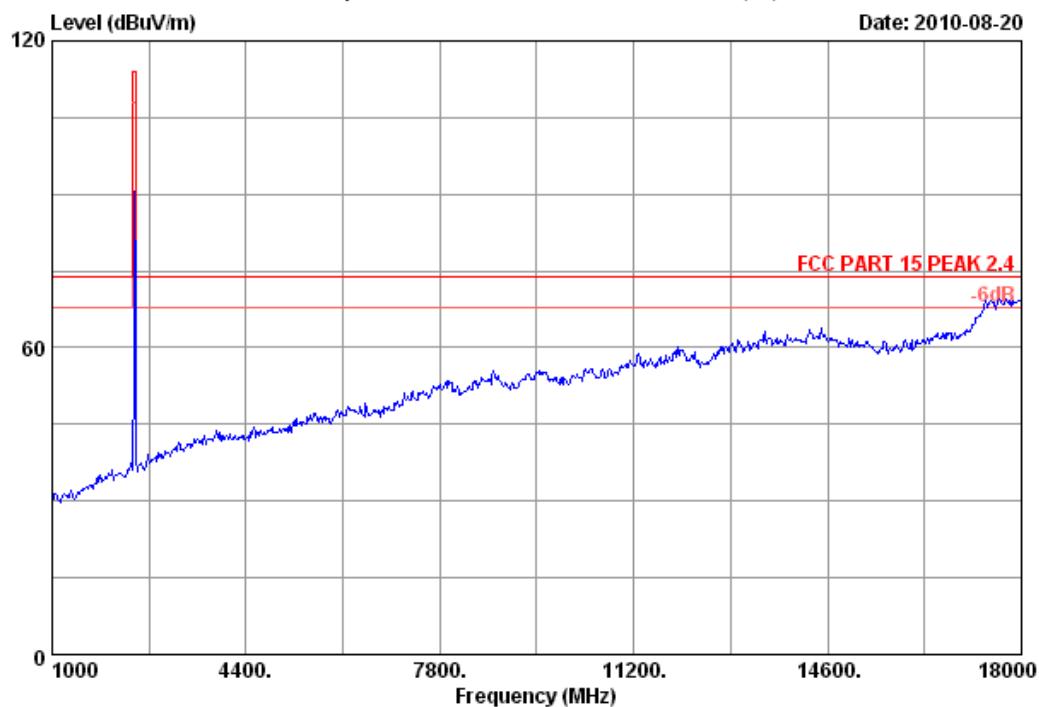
Remarks:

1. Emission Level = Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 14 File: E:\2010 report data\A\Activision\ACS10QH191.EM6 (39)

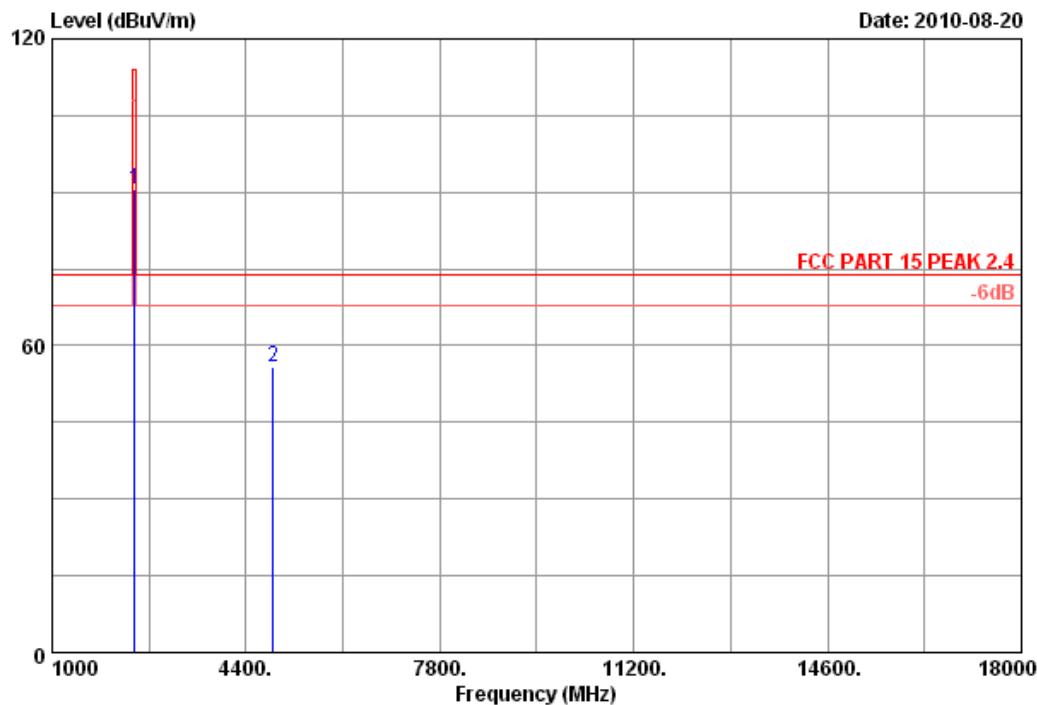


Site no.	: 10m Chamber	Data no.	: 14
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer	: Leo-Li
EUT	: Wireless Rod and Reel Controller for PlayStation 3		
Power	: DC 3V		
Test mode	: Tx 2440MHz		
M/N	: 76410800		



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Data: 15 File: E:\2010 report data\A\Activision\ACS10QH191.EM6 (39)



Site no. : 10m Chamber Data no. : 15
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless Rod and Reel Controller for PlayStation 3
Power : DC 3V
Test mode : Tx 2440MHz
M/N : 76410800

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission			
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1 2440.000	29.47	7.50	36.61	90.28	90.64	114.00	23.36 Peak
2 4880.000	34.41	10.71	35.03	45.63	55.72	74.00	18.28 Peak

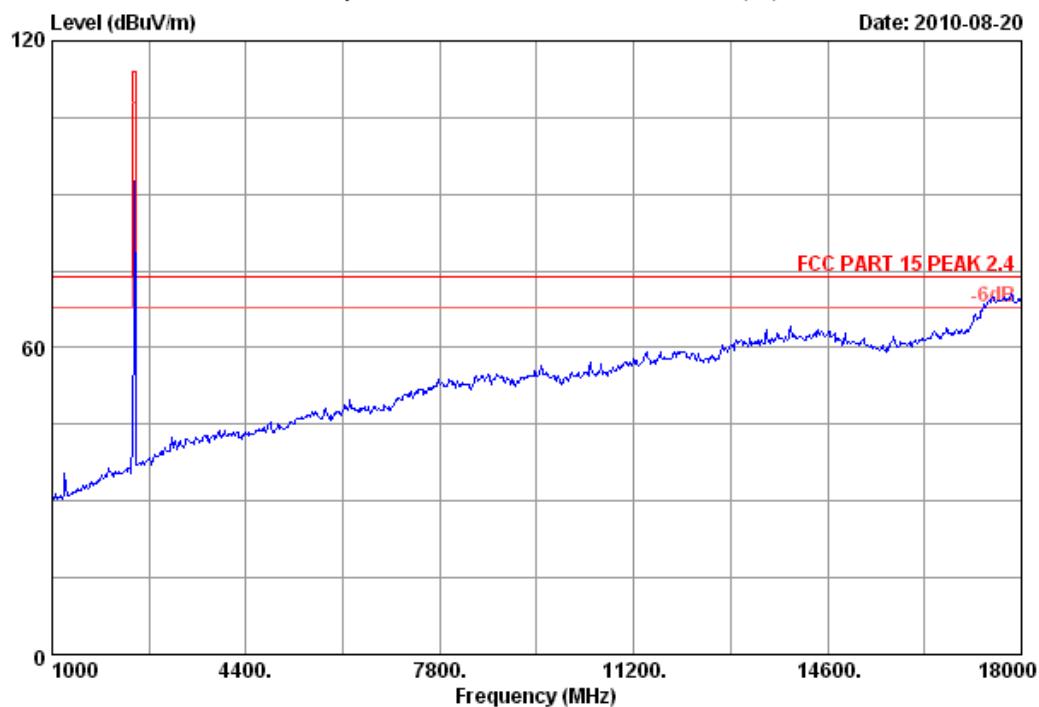
Remarks:

1. Emission Level = Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 16 File: E:\2010 report data\A\Activision\ACS10QH191.EM6 (39)

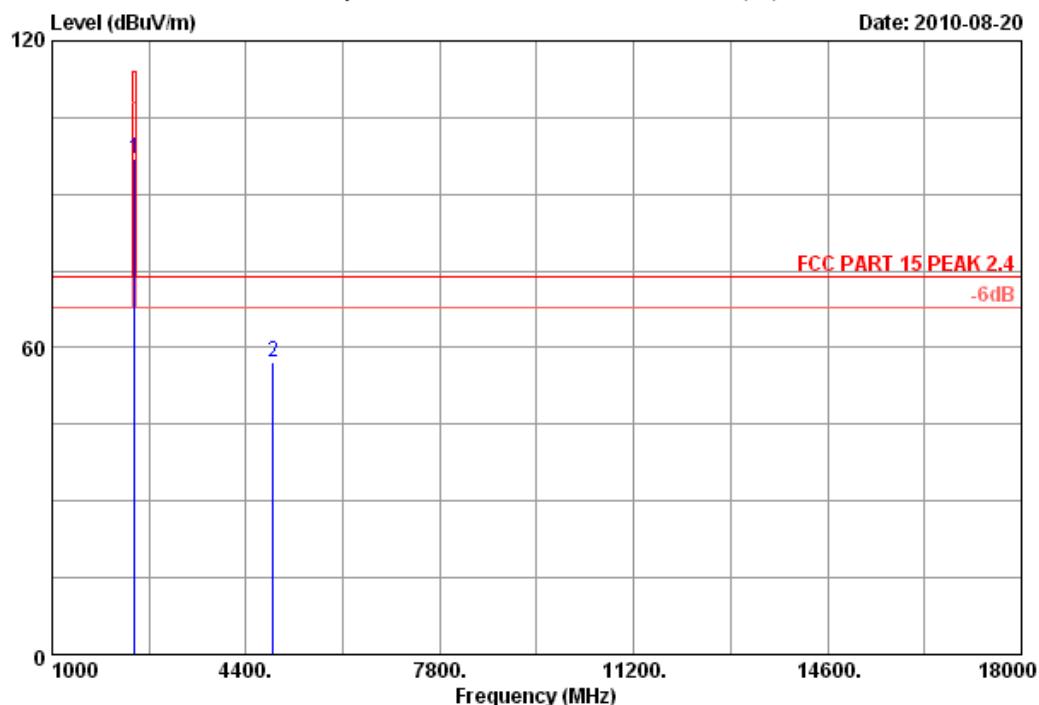


Site no.	: 10m Chamber	Data no.	: 16
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 PEAK 2.4		
Env. / Ins.	: 23°C/54%	Engineer	: Leo-Li
EUT	: Wireless Rod and Reel Controller for PlayStation 3		
Power	: DC 3V		
Test mode	: Tx 2440MHz		
M/N	: 76410800		



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Data: 17 File: E:\2010 report data\A\Activision\ACS10QH191.EM6 (39)



Site no. : 10m Chamber Data no. : 17
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless Rod and Reel Controller for PlayStation 3
Power : DC 3V
Test mode : Tx 2440MHz
M/N : 76410800

Freq. (MHz)	Ant. (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2440.000	29.47	7.50	36.61	96.56	96.92	114.00	17.08	Peak
2 4880.000	34.41	10.71	35.03	46.91	57.00	74.00	17.00	Peak

Remarks:

1. Emission Level = Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

5. BAND EDGE COMPLIANCE TEST

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,10	1 Year
2.	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 09	1.5 Year
3.	Amplifier	Agilent	8449B	3008A02495	May.08, 10	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08,10	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,10	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	May.08,10	1 Year

5.2. Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in section 15.209, which is the lesser attenuation.

5.3. Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was 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 emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK: RBW=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
 - (b) This device is pulse modulated, a duty cycle factor was used to calculate average level based measured peak level.

5.4. Test Results

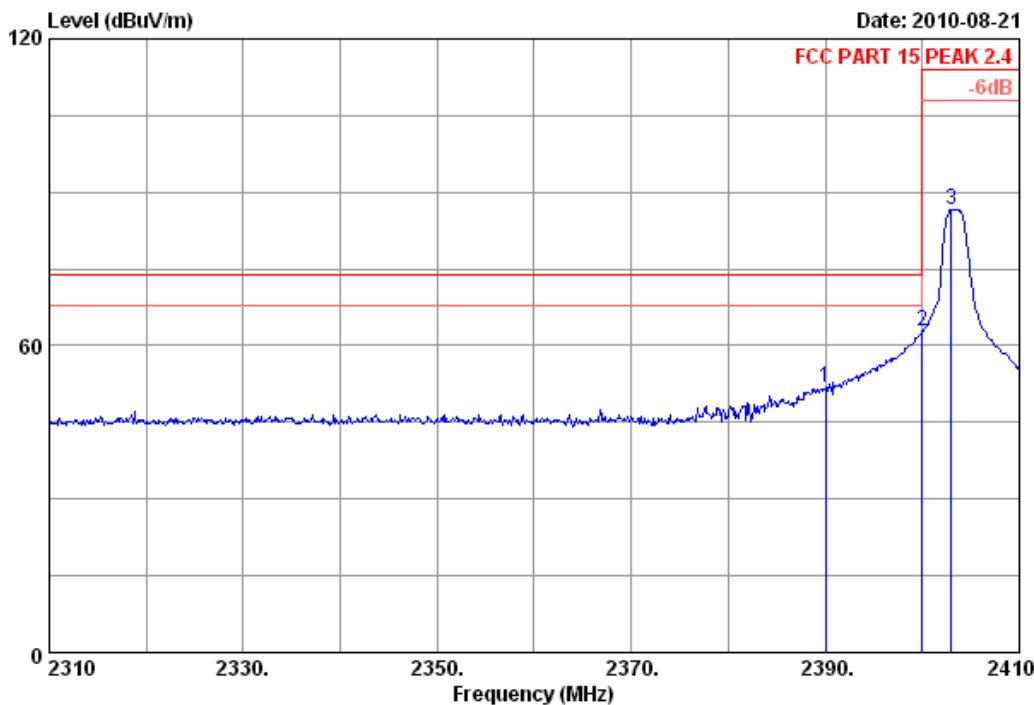
Pass (The testing data was attached in the next pages.)

Note: The duty cycle factor for calculate average level is 32.00dB, and average limit is 20dB below peak limit, so if peak measured level comply with peak limit, the average level was deemed to comply with average limit.



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Site no. : 10m Chamber Data no. : 18
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless Rod and Reel Controller for PlayStation 3
Power : DC 3V
Test mode : Tx 2403MHz
M/N : 76410800

	Ant.	Cable	Amp.	Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
1	2390.000	29.44	7.39	36.62	51.45	51.66	74.00
2	2400.000	29.44	7.43	36.62	62.44	62.69	74.00
3	2403.000	29.45	7.43	36.62	86.39	86.65	114.00

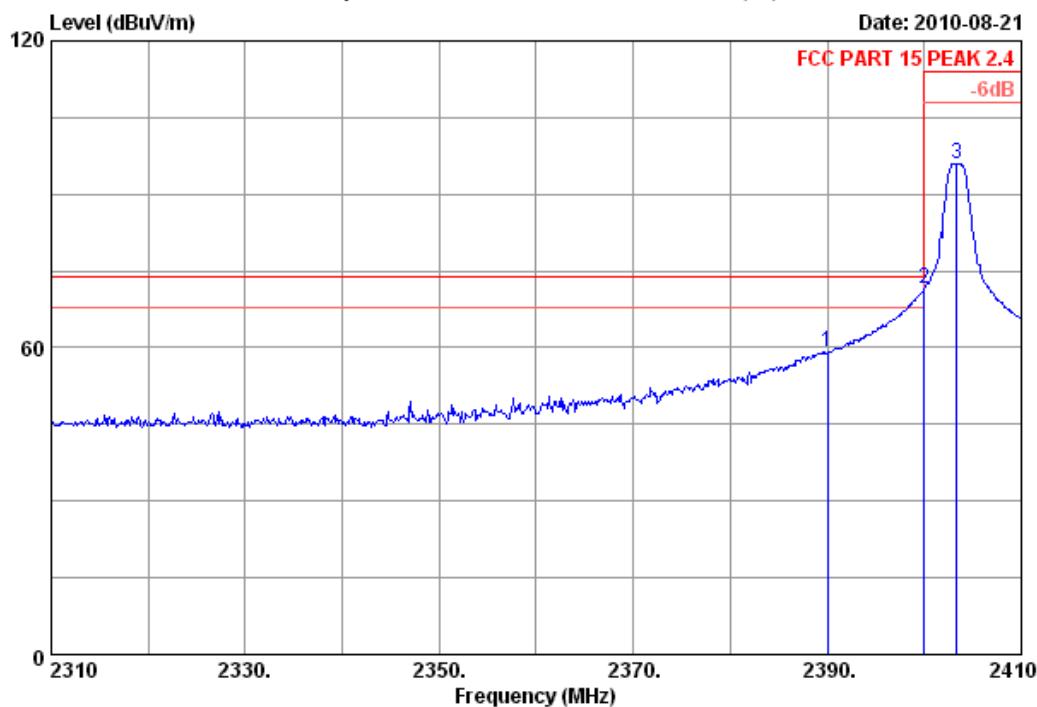
Remarks:

1. Emission Level = Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 19 File: E:\2010 report data\A\Activision\ACS10QH191.EM6 (39)



Site no. : 10m Chamber Data no. : 19
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless Rod and Reel Controller for PlayStation 3
Power : DC 3V
Test mode : Tx 2403MHz
M/N : 76410800

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin		
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2390.000	29.44	7.39	36.62	58.81	59.02	74.00	14.98	Peak
2	2400.000	29.44	7.43	36.62	71.39	71.64	74.00	2.36	Peak
3	2403.300	29.45	7.43	36.62	95.69	95.95	114.00	18.05	Peak

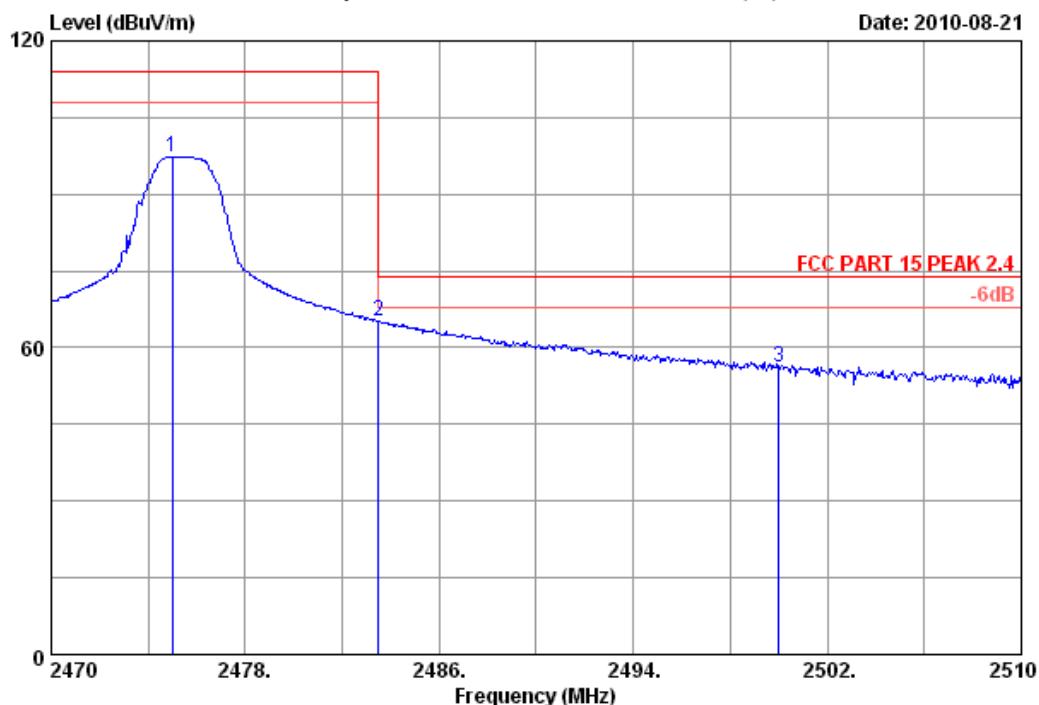
Remarks:

1. Emission Level = Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 20 File: E:\2010 report data\A\Activision\ACS10QH191.EM6 (39)



Site no. : 10m Chamber Data no. : 20
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : Wireless Rod and Reel Controller for PlayStation 3
 Power : DC 3V
 Test mode : Tx 2475MHz
 M/N : 76410800

	Ant.	Cable	Amp.	Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
1	2475.000	29.49	7.54	36.60	96.95	97.38	16.62
2	2483.500	29.49	7.58	36.60	64.74	65.21	8.79
3	2500.000	29.50	7.62	36.60	55.73	56.25	17.75

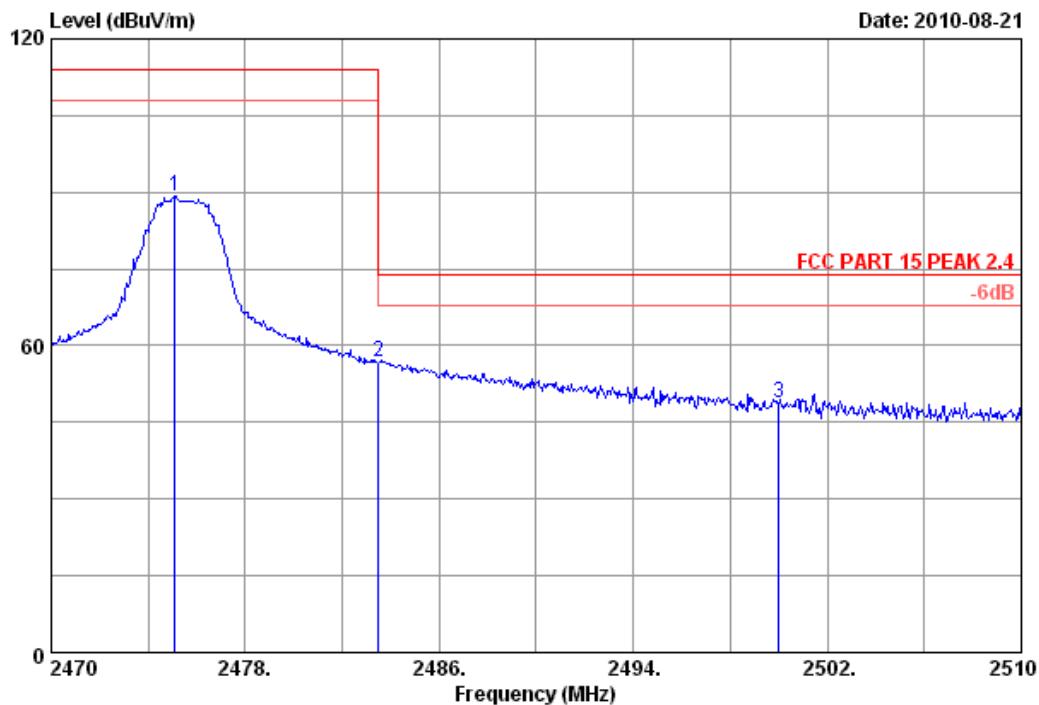
Remarks:

1. Emission Level = Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 21 File: E:\2010 report data\A\Activision\ACS10QH191.EM6 (39)



Site no. : 10m Chamber Data no. : 21
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : Wireless Rod and Reel Controller for PlayStation 3
Power : DC 3V
Test mode : Tx 2475MHz
M/N : 76410800

	Ant.	Cable	Amp.	Emission			
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
1	2475.080	29.49	7.54	36.60	88.79	89.22	24.78 Peak
2	2483.500	29.49	7.58	36.60	56.27	56.74	74.00 17.26 Peak
3	2500.000	29.50	7.62	36.60	48.40	48.92	74.00 25.08 Peak

Remarks:

1. Emission Level = Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

6. BANDWIDTH TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,10	1 Year

6.2. Limit

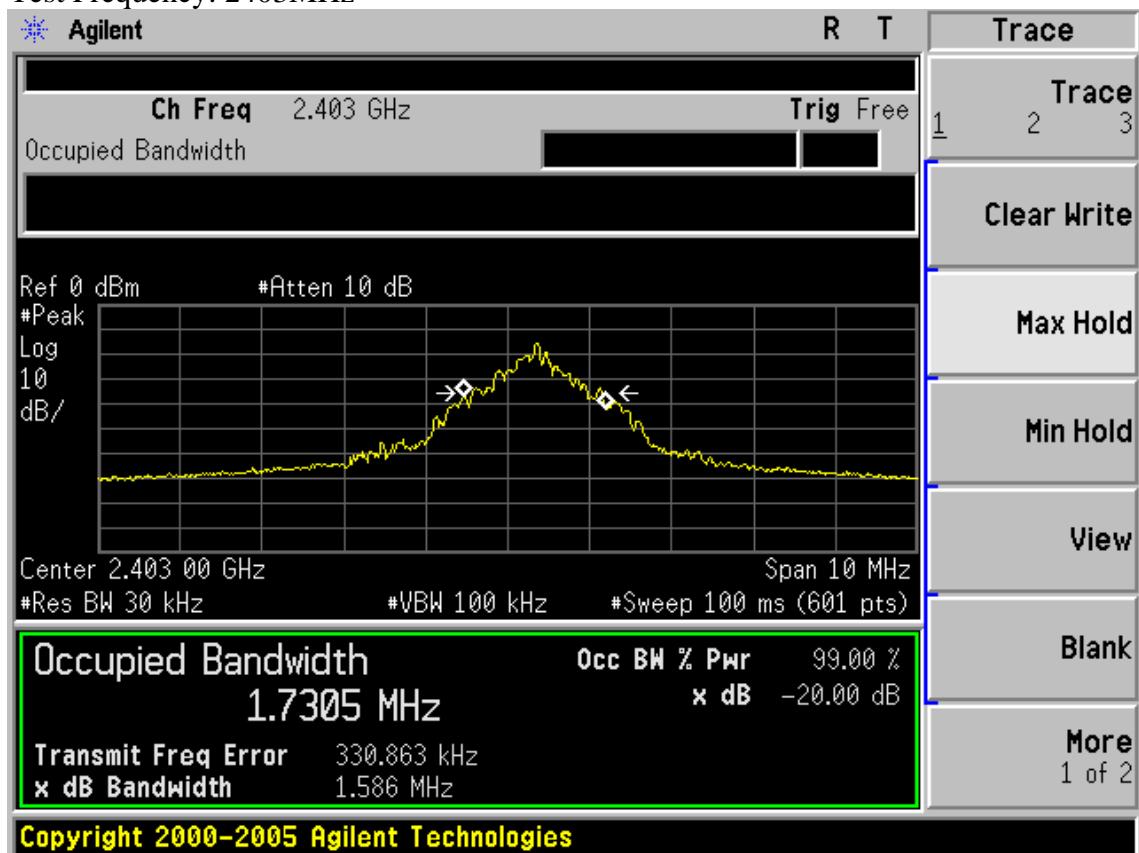
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

6.3. Test Results

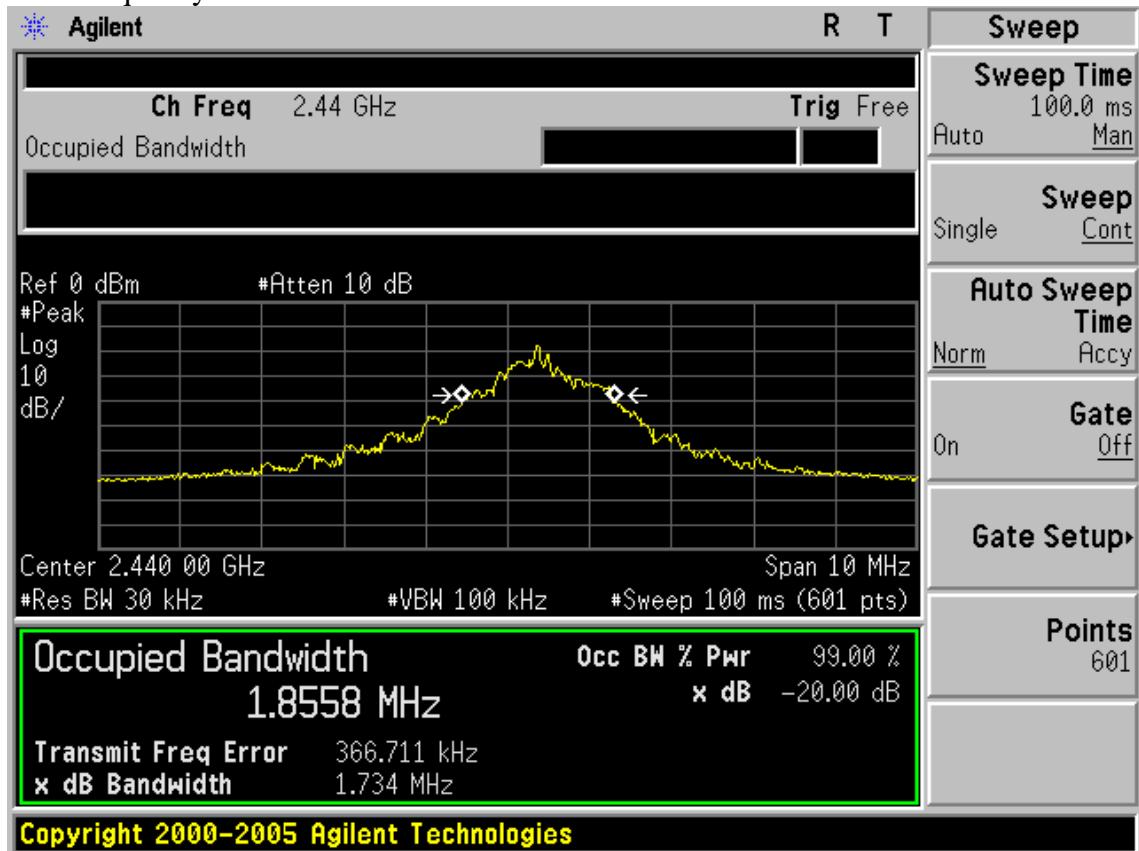
EUT: Wireless Rod and Reel Controller for PlayStation 3		
M/N:76410800		
Test date:2010-08-20	Pressure:100.5 kpa	Humidity:54 %
Tested by:Leo-Li	Test site: RF site	Temperature : 25 °C

Frequency	-20dB bandwidth (KHz)	Limit (KHz)
2403	1586	N/A
2440	1734	N/A
2475	1669	N/A
Conclusion : PASS		

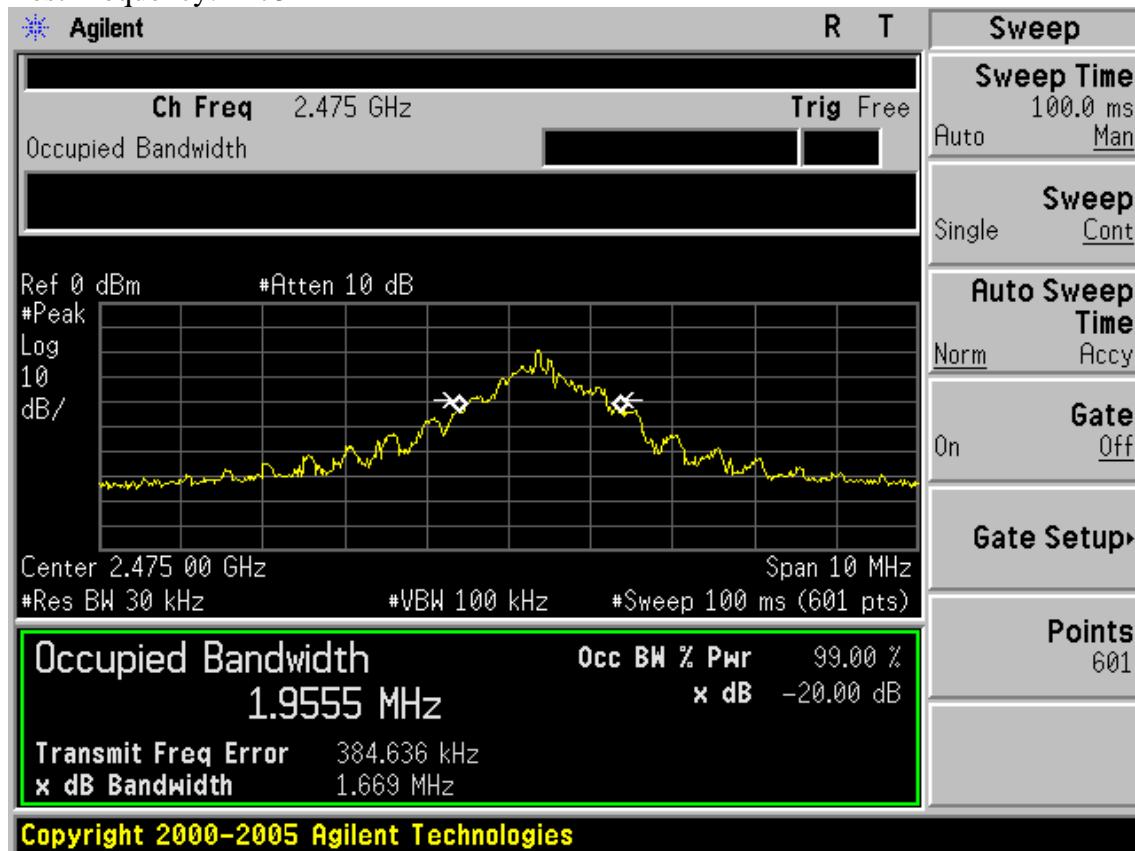
Test Frequency: 2403MHz



Test Frequency: 2440MHz



Test Frequency: 2475MHz



7. DEVIATION TO TEST SPECIFICATIONS

[NONE]