

Test report No. Page Issued date

FCC ID

: 28FE0090-HO-01-C : 1 of 199

: February 13, 2008 : AK8CBEH1300

# **RADIO TEST REPORT**

Test Report No.: 28FE0090-HO-01-C

**Applicant** : Sony Computer Entertainment Inc.

Type of Equipment : PLAYSTATION®3

Model No. : CECHJ01

FCC ID : AK8CBEH1300

Test regulation : FCC Part 15 Subpart C 2008

Section 15.207, Section 15.247

Test Result : Complied

 This test report shall not be reproduced in full or partial, without the written approval of UL Japan, Inc.

- 2. The results in this report apply only to the sample tested.
- 3. This sample tested is in compliance with the above regulation.
- 4. The test results in this report are traceable to the national or international standards.

Date of test:

January 11 to 25, 2008

**Tested by:** 

Takumi Shimada EMC Services

Kazufumi Nakai EMC Services

Approved by:

Mitsuru Fujimura

Assistant Manager of EMC Services

NVLAP LAB CODE: 200572-0

This laboratory is accredited by the NVLAP LAB CODE 200572-0, U.S.A. The tests reported herein have been performed in accordance with its terms of accreditation.

\*As for the range of Accreditation in NVLAP, you may refer to the WEB address, http://uljapan.co.jp/emc/nvlap.htm

Shinya Watanabe

**EMC Services** 

Motoya Imura

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UL Japan, Inc.

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### **SECTION 1: Client information**

Company Name	Sony Computer Entertainment Inc.
Brand Name	SONY
Address	2-6-21 Minamiaoyama, Minato-ku, Tokyo, 107-0062, Japan
Telephone Number	+81-3-6438-8023
Facsimile Number	+81-3-6438-8642
Contact Person	Akiko Tsukada

### **SECTION 2: Equipment under test (E.U.T.)**

### 2.1 Identification of E.U.T.

Type of Equipment	PLAYSTATION®3
Model No	CECHJ01
Serial No	1050034: Used for Conducted emission, Maximum Peak Output Power, and
	Radiated emission tests.
	1030165: Used for Conducted emission and Antenna terminal conducted tests.
	1030177: Used for Radiated emission test
Rating	AC 120V, 60Hz
Country of Manufacture	JAPAN/CHINA
Receipt Date of Sample	January 9, 2008
Condition of EUT	Engineering prototype
	(Not for Sale: This sample is equivalent to mass-produced items.)
Modification of EUT	No modification by the test lab.

### 2.2 Product Description

Model: CECHJ01, referred to as the EUT in this report, is a PLAYSTATION®3.

The EUT contains Bluetooth (Ver. 2.0+EDR) module and IEEE802.11b/g WLAN module. Those modules do not transmit simultaneously.

Clock Frequencies are CPU: 3.2GHz(CPU), 66MHz(ATA), 133MHz(ATA), 33MHz(PCI), and 750MHz(SATA1).

#### **List of Model No.:**

### PLAYSTATION®3

Model No.		Items		Drototuna Na
Wiodel No.	Destination	Manufacture	Ver.	Prototype No.
CECHJ01	UC2 to North	SKZ or MTK or	Production, 40 GB, High	CBEH-1401
	America	FOX		
Debugging Station				

Debugging Station

Model No.		Items		Prototyma Na
Widdel No.	Destination	Manufacture	Ver.	Prototype No.
DECHJ00A	SY5 (World-wide)	SKZ	Debugging Station, 40GB	DEH-H2000A
DECHJ00AS	SY5 (World-wide)	SKZ	Debugging Station	DEH-
			(for exhibition), 40GB	H2000AS
DECHSJ00A	SY5 (World-wide)	SKZ	Debugging Station	DEH-S2000A
			(for AV Test), 40GB	

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### Bluetooth (Ver. 2.0+EDR)

Equipment Type	Transceiver	
Frequency of Operation	2402-2480MHz	
Type of Modulation	FHSS (GFSK, π/4-DQPSK, 8DP)	SK)
Bandwidth & Channel	1MHz & 1MHz	
spacing		
Power Supply (inner)	DC3.3V	
Antenna Type	ANT1: Reverse F Antenna (manufacturer: SMK / AMP)	ANT2: Dipole Antenna
Antenna Gain	ANT1:-0.90 dBi (max)	ANT2: -1.20 dBi (max)
Antenna Connector Type	ANT1: N/A	ANT2: N/A

### IEEE802.11b/g WLAN

Equipment Type	Transceiver	
Frequency of Operation	2412-2462MHz	
Type of Modulation	DSSS/OFDM	
Bandwidth & Channel	20MHz & 5MHz	
spacing		
Power Supply (inner)	DC 3.3V/DC1.3V	
Antenna Type	ANT0: Reverse F Antenna	ANT1: Reverse F Antenna
Antenna Gain	ANT0: 3.09 dBi (max)	ANT1: -0.50 dBi (max)
Antenna Connector Type	ANT0: U.FL	ANT1: N/A

For IEEE802.11b/g WLAN part, please see UL Japan, Inc. Test Report Number: 28FE0090-HO-01-A.

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### **SECTION 3: Test specification, procedures & results**

### 3.1 Test Specification

Test Specification : FCC Part15 Subpart C: 2008, final revised on January 30, 2008

Title : FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional

Radiators

Section 15.207 Conducted limits

Section 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz

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<sup>\*</sup>The revision on January 30, 2008 does not influence the test specification applied to the EUT.

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#### 3.2 **Procedures and results**

No.	Item	Test Procedure	Specification	Remarks	Deviation	Worst Margin	Results
		FCC: ANSI C63.4:2003 7. AC powerline conducted emission measurements	FCC: Section 15.207			QP 10.0dB, N 2.43656MHz Serial: 1050034, Module2,	
1	Conducted emission	IC: RSS-Gen 7.2.2	IC: RSS-Gen 7.2.2	-	N/A	ANTI(SMK) Tx, Ch: Mid(DH5)  AV  3.3dB  0.78608MHz, N  Serial: 1030165, Module1, ANTI(SMK) Tx, Ch: Mid(DH5)	Complied
2	Carrier Frequency Separation	FCC: FCC Public Notice DA 00-705	FCC: Section15.247(a)(1)	Contrated	N/A		Complicat
2		IC: -	IC: RSS-210 A8.1 (b)	Conducted	N/A		Complied
2	20 dB B d: 4d-	FCC: FCC Public Notice DA 00-705	FCC: Section15.247(a)(1)	Contrated	NY/A		Complicat
3	20dB Bandwidth	IC: -	IC: RSS-210 A8.1 (a)	Conducted	N/A		Complied
	Number of Hopping Frequency 70	FCC: FCC Public Notice DA 00-705	FCC: Section15.247(a)(1)(iii)		27/4		G 11 1
4		IC: -	IC: RSS-210 A8.1 (d)	Conducted	N/A	See data.	Complied
-	D 114	FCC: FCC Public Notice DA 00-705	FCC: Section15.247(a)(1)(iii)		N/A		Commiss
5	Dwell time	IC: -	IC: RSS-210 A8.1 (d)	Conducted			Complied
	Maximum Peak	FCC: FCC Public Notice DA 00-705	FCC: Section15.247(b)(1)				
6	Output Power	IC: RSS-Gen 4.8	IC: RSS-210 A8.4 (2)	Conducted	N/A		Complied
	Band Edge	FCC: FCC Public Notice DA 00-705					
7	Compliance	IC: -	IC: RSS-210 A8.5	Conducted	N/A		Complied
		FCC: FCC Public Notice DA 00-705	FCC: Section15.247(d)			[Tx] 4.4dB 36.002MHz, QP	
8	Spurious Emission	IC: RSS-Gen 4.9 RSS-Gen 4.10	IC: RSS-210 A8.5 RSS-Gen 7.2.1 and 7.2.3	Conducted/ Radiated	nducted/ N/A	Vertical, Module2, ANT1(SMK) Ch: Mid(DH5) [Rx] 4.7dB 36.014MHz, QP Vertical, Module2, ANT2 Rx, Ch: Mid	Complied

Note: UL Japan, Inc.'s EMI Work Procedures No.QPM05 and QPM15.

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<sup>\*</sup> These tests were performed without any deviations from test procedure except for additions or exclusions.
\* In case any questions arise about test procedure, ANSI C63.4: 2003 is also referred

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#### 3.3 Addition to standards

No.	Item	Test Procedure	Specification	Remarks	Deviation	Worst margin	Results
1	99% Occupied	IC: RSS-Gen 4.6.1	IC: RSS-Gen 4.6.1	Conducted	N/A	N/A	N/A
	Band Width						

### 3.4 Uncertainty

The following uncertainties have been calculated to provide a confidence level of 95% using a coverage factor k=2.

The following uncertainties have been calculated to provide a confidence level of 93% using a coverage factor k=2.									
	Conducted	R	adiated emiss	sion	Radiated emission			Radi	
	emission		(10m*)			(3m*)		emis	sion
Test room								(3m	ı*)
	150kHz-	9kHz-	30MHz-	300MHz-	9kHz-	30MHz-	300MHz-	1GHz-	18GHz-
	30MHz	30MHz	300MHz	1GHz	30MHz	300MHz	1GHz	18GHz	40GHz
No.1	3.7dB	3.1dB	4.7dB	4.4dB	3.2dB	3.7dB	4.4dB	5.9dB	6.1dB
semi-anechoic									
Chamber (±)									
No.2	3.7dB	-	-	-	3.2dB	4.3dB	3.9dB	5.9dB	6.1dB
semi-anechoic									
chamber (±)									
No.3	3.7dB	-	-	-	3.2dB	4.2dB	4.4dB	5.9dB	6.1dB
semi-anechoic									
chamber (±)									
No.4	3.7dB	-	-	-	3.2dB	4.2dB	4.4dB	5.9dB	6.1dB
semi-anechoic									
chamber (±)									

<sup>\*10</sup>m/3m = Measurement distance

#### Conducted emission test

The data listed in this report meets the limits unless the uncertainty is taken into consideration.

### Radiated emission test(3m)

- [Tx] The data listed in this report meets the limits unless the uncertainty is taken into consideration.
- [Rx] The data listed in this test report has enough margin, more than the site margin.

#### Other test except Conducted Emission and Spurious Emission (Radiated)

The measurement uncertainty for this test is 3.0dB.

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#### 3.5 Test Location

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Telephone: +81 596 24 8116 Facsimile: +81 596 24 8124

•	FCC	IC Registration	Width x Depth x	Size of	Other
	Registration	Number	Height (m)	reference ground plane (m) /	rooms
	Number			horizontal conducting plane	
No.1 semi-anechoic	313583	IC4247	19.2 x 11.2 x 7.7m	7.0 x 6.0m	No.1 Power
chamber					source room
No.2 semi-anechoic chamber	655103	IC4247-2	7.5 x 5.8 x 5.2m	4.0 x 4.0m	-
No.3 semi-anechoic	148738	IC4247-3	12.0 x 8.5 x 5.9m	6.8 x 5.75m	No.3
chamber					Preparation
					room
No.3 shielded room	-	-	4.0 x 6.0 x 2.7m	N/A	-
No.4 semi-anechoic	134570	IC4247-4	12.0 x 8.5 x 5.9m	6.8 x 5.75m	No.4
chamber					Preparation
					room
No.4 shielded room	-	-	4.0 x 6.0 x 2.7m	N/A	-
No.5 semi-anechoic	-	-	6.0 x 6.0 x 3.9m	6.0 x 6.0m	-
chamber				0.0 X 0.0III	
No.6 shielded	-	-	4.0 x 4.5 x 2.7m	4.75 x 5.4 m	-
room					
No.6 measurement	-	-	4.75 x 5.4 x 3.0m	4.75 x 4.15 m	-
room					
No.7 shielded room	-	-	4.7 x 7.5 x 2.7m	4.7 x 7.5m	-
No.8 measurement	-	-	3.1 x 5.0 x 2.7m	N/A	-
room					
No.9 measurement	-	-	8.0 x 4.5 x 2.8m	2.0 x 2.0m	-
room					
No.10 measurement	-	-	2.6 x 2.8 x 2.5m	2.4 x 2.4m	-
room					
No.11 measurement	-	-	3.1 x 3.4 x 3.0m	2.4 x 3.4m	-
room					

<sup>\*</sup> Size of vertical conducting plane (for Conducted Emission test): 2.0 x 2.0m for No.1, No.2, No.3, and No.4 semi-anechoic chambers and No.3 and No.4 shielded rooms.

### 3.6 Test set up, Test instruments and Data of EMI

Refer to APPENDIX 1 to 3.

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### **SECTION 4: Operation of E.U.T. during testing**

### 4.1 **Operating Mode(s)**

Test	Mode	Tested frequency
Conducted Emission	Bluetooth Transmitting (Tx), DH5/3DH5	2402MHz
		2441MHz
		2480MHz
	Bluetooth Transmitting (Rx)	2441MHz
Carrier Frequency Separation	Bluetooth Transmitting (Tx)	2402MHz
	(Hopping ON)/Inquiry, DH5/3DH5	2441MHz
		2480MHz
20dB Bandwidth	Bluetooth Transmitting (Tx)	2402MHz
	(Hopping Off)/Inquiry, DH5/3DH5	2441MHz
		2480MHz
Number of Hopping Frequency	Bluetooth Transmitting (Tx)	-
	(Hopping ON)/Inquiry, DH5/3DH5	
Dwell time	Bluetooth Transmitting (Tx)	-
	(Hopping ON)/Inquiry	
	-DH1	
	-DH3	
	-DH5	
	-3DH1	
	-3DH3	
	-3DH5	
Maximum Peak Output Power	Bluetooth Transmitting (Tx)	2402MHz
	(Hopping Off)/Inquiry	2441MHz
	-DH5	2480MHz
	-2DH5	
	-3DH5	
Spurious Emission	Bluetooth Transmitting (Tx), DH5/3DH5	2402MHz
(Conducted/Radiated)		2441MHz
		2480MHz
	Bluetooth Receiving (Rx), DH5	2441MHz
Band Edge Compliance	Bluetooth Transmitting (Tx), DH5/3DH5	2402MHz
(Conducted)	-Hopping ON	2480MHz
(,	-Hopping OFF	
(Radiated)	Bluetooth Transmitting (Tx), DH5/3DH5	2402MHz
( )	(), = 110, 02110	2480MHz
99% Occupied Bandwidth	Bluetooth Transmitting (Tx), DH5/3DH5	2402MHz
	-Hopping ON	2441MHz
	-Hopping OFF	2480MHz
	<u> </u>	

<sup>\*</sup>As a result of preliminary check of output power with two antennas (ANT1 and ANT2), antenna terminal conducted test was performed with ANT2 only, which had the maximum peak output power.

**Remarks:** Test was not performed at AFH mode, because the decrease of number of channel (min: 20ch) at AFH mode does not influence on the output power and bandwidth of the EUT. However, the limit level 125mWof AFH mode was used due to the overlap of the bandwidth.

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### 4.2 Configuration and peripherals

This page has been submitted for a separate exhibit.

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#### **SECTION 5: Conducted Emission**

#### **Test Procedure and conditions**

EUT was placed on a urethane platform of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane. The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT, including peripherals aligned and flushed with rear of tabletop. All other surfaces of tabletop were at least 80cm from any other grounded conducting surface. EUT was located 80cm from a Line Impedance Stabilization Network (LISN)/ Artificial mains Network (AMN) and excess AC cable was bundled in center.

#### For the tests on EUT with other peripherals (as a whole system)

I/O cable and AC cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30cm to 40cm long and were hanged at a 40cm height to the ground plane. All unused 50ohm connectors of the LISN(AMN) were resistivity terminated in 50ohm when not connected to the measuring equipment.

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT in a Semi Anechoic Chamber or a Measurement Room.

The EUT was connected to a LISN (AMN).

An overview sweep with peak detection has been performed.

Detector : quasi-peak and average detector (IF BW 9 kHz)

Measurement range : 0.15-30MHz
Test data : APPENDIX 2

Test result : Pass

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#### **SECTION 6: Spurious Emission**

#### [Conducted]

#### **Test Procedure**

The Out of Band Emission was measured with a spectrum analyzer connected to the antenna port.

The following spectrum analyzer setting was used:

RBW: 100kHz
VBW: 300kHz
Sweep: Auto
Detector: Peak
Trace: Max Hold

Test data : APPENDIX 2

Test result : Pass

#### [Radiated]

### **Test Procedure**

EUT was placed on a urethane platform of nominal size, 1.0m by 1.5m, raised 80cm above the conducting ground plane. The Radiated Electric Field Strength intensity has been measured in a Semi Anechoic Chamber with a ground plane and at a distance of 3m(Below 10GHz) and 1m(Upper 10GHz).

The height of the measuring varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver, or the Spectrum Analyzer (in linear mode).

The test was made with the detector (RBW/VBW) in the following table.

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator confirmed 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on a radiated measurement.

20dBc was applied to the frequency over the limit of FCC 15.209 / Table 2 of RSS-210 2.7 (IC) and outside the restricted band of FCC 15.205 / Table 1 of RSS-210 2.7 (IC).

Frequency	Below 1GHz	Above 1GHz
Instrument used	Test Receiver / Spectrum Analyzer	Spectrum Analyzer
Detector	QP: BW 120kHz(T/R)	PK: RBW:1MHz/VBW: 1MHz
IF Bandwidth	20dBc : RBW: 100kHz	AV: RBW:1MHz/VBW:10Hz
	VBW: 300kHz (S/A)	20dBc: RBW:100kHz/VBW:300kHz

- The carrier level and noise levels were confirmed at each position of X and Y axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

Test data : APPENDIX 2

Test result : Pass

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### **SECTION 7: Bandwidth**

#### **Test Procedure**

The bandwidth was measured with a spectrum analyzer connected to the antenna port. The following spectrum analyzer setting was used:

Span: 3MHz
RBW: 30kHz
VBW: 30kHz
Sweep: Auto
Detector: Peak
Trace: Max Hold

Test data : APPENDIX 2

Test result : Pass

### **SECTION 8: Maximum Peak Output Power**

#### **Test Procedure**

The Maximum Peak Output Power was measured with a power meter (tested bandwidth: 50MHz) connected to the antenna port.

Test data : APPENDIX 2

Test result : Pass

### **SECTION 9: Carrier Frequency Separation**

#### **Test Procedure**

The carrier frequency separation was measured with a spectrum analyzer connected to the antenna port. The following spectrum analyzer setting was used:

Span: 3MHz
RBW: 100kHz
VBW: 300kHz
Sweep: Auto
Detector: Peak
Trace: Max Hold

Test data : APPENDIX 2

Test result : Pass

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### **SECTION 10: Number of Hopping Frequency**

#### **Test Procedure**

The Number of Hopping Frequency was measured with a spectrum analyzer connected to the antenna port. The following spectrum analyzer setting was used:

Span: 30MHz
RBW: 300kHz
VBW: 1MHz
Sweep: Auto
Detector: Peak
Trace: Max Hold

Test data : APPENDIX 2

Test result : Pass

### **SECTION 11: Dwell time**

#### **Test Procedure**

The Dwell time was measured with a spectrum analyzer connected to the antenna port. The following spectrum analyzer setting was used:

Span: Zero SpanRBW: 1MHzVBW: 3MHz

- Sweep: as necessary to capture the entire dwell time per hopping channel

Detector: peakTrace: Max Hold

Test data : APPENDIX 2

Test result : Pass

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