APPLICATION FOR CERTIFICATION

On Behalf of

Harmonix Music Systems, Inc.

Rock Band 2 PS wireless Drum Dongle

Model Number: PDMSELEA2B

FCC ID: VFRHMXDDG03

Prepared for: Harmonix Music Systems, Inc.

625 Massachusetts Ave 2nd Floor Cambridge, MA 02139

United States

Prepared By: Audix Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Rd., 52 Block,

Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

Tel: (0755) 26639496

Report Number : ACS-F08370

Date of Test : Aug.11~22, 2008

Date of Report : Aug.25, 2008

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TEST REPORT CERTIFICATION

Applicant

Harmonix Music Systems, Inc.

Manufacturer

Early Light Industrial Co., LTD.

EUT Description

Rock Band 2 PS wireless Drum Dongle

FCC ID

VFRHMXDDG03

(A) Model N.

: PDMSELEA2B

(B) Serial No. : N/A

(C) Power Supply: DC 5V

(D) Test Voltage : DC 5V From PS3 Input AC 120V/60Hz

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 2007

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 both 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 these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the 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.11-22, 2008

Prepared by:

Reviewer:

Jamy Yu / Senior Engineer

Jamy Kn

信筝释放(强胡)有限公司 Andix Technology (Shenzhen) Co., Ltd. EMC布門和告專用金

Stamp only for EV. 3 De

Approved & Authorized Signer:

Ken Lu / Deputy 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.

CC Part 15: 15.207 ANSI C63.4: 2003 CC Part 15: 15.209 ANSI C63.4: 2003 C Part 15: 15.247(a)(1) DA 00-705 C Part 15: 15.247(a)(1) DA 00-705 Part 15: 15.247(a)(1)(iii)	PASS PASS PASS
ANSI C63.4: 2003 C Part 15: 15.247(a)(1) DA 00-705 C Part 15: 15.247(a)(1) DA 00-705	PASS
DA 00-705 C Part 15: 15.247(a)(1) DA 00-705	
DA 00-705	PASS
Part 15: 15.247(a)(1)(iii)	
DA 00-705	PASS
Part 15: 15.247(a)(1)(iii)	PASS
C Part 15: 15.247(b)(1) DA 00-705	PASS
CC Part 15: 15.247(d) DA 00-705	PASS
FCC Part 15: 15.203	PASS
	DA 00-705 CC Part 15: 15.247(d)

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Description	:	Rock Band 2 PS wireless Drum Dongle
Model Number	:	PDMSELEA2B
FCC ID	:	VFRHMXDDG03
Operation frequency	:	2.408GHz2.476GHz ISM Band
Operation Channel	:	16 Channels
Modulation Technology		GFSK
Output power	:	-0.8dBm(maximum measured)
Antenna Assembly Gain	:	0dBi(maximum)
Applicant	:	Harmonix Music Systems, Inc.
		625 Massachusetts Ave 2nd Floor Cambridge, MA 02139 United States
Manufacturer	:	Early Light Industrial Co., LTD.
		Early Light International Centre, No.9 Ka Fu Close, Sheung Shui, New Territories, Hong Kong.
Date of Test	:	Aug.11~22, 2008
Date of Receipt	:	Aug.10, 2008
Sample Type	:	Prototype production

2.2. Tested Supporting System Details

2.2.1. PS3

M/N : CECHC04

S/N : N/A
Manufacturer : Sony

2.3. 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 : Jun. 13, 2006 File on Federal Communication

Commission

Registration Number: 90454

3m & 10m Anechoic Chamber : Jan. 31, 2007 File on Federal Communication

Commission

Registration Number: 794232

EMC Lab. : Accredited by DATech, German

Registration Number: DAT-P-091/99-01

Dec.20, 2007

Accredited by NVLAP, USA NVLAP Code: 200372-0

Apr. 01, 2008

2.4. Measurement Uncertainty

No.	Item	MU	Remark
1.	Uncertainty for Conducted Emission Test	2.02dB	
2	Uncertainty for Radiation Emission test	3.44 dB	Polarize: V
۷.	in 3m chamber	3.96 dB	Polarize: H
		3.46 dB	Distance: 10m Polarize: V
2	Uncertainty for Radiation Emission test	3.82 dB	Distance: 10m Polarize: H
3.	in 10m chamber	3.64 dB	Distance: 3m Polarize: V
		4.02 dB	Distance: 3m Polarize: H
4.	RF frequency	±0.5×10 ⁻⁷	
5.	RF power, conducted	±3dB	

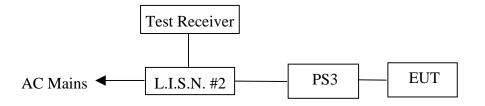
3. POWER LINE CONDUCTED EMISSION TEST

3.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Dec.19, 07	1 Year
2.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	May 10,08	1 Year
3.	Terminator	Hubersuhner	50Ω	No. 1	May 10,08	1 Year
4.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	Jul.08, 08	1/2 Year
5.	Coaxial Switch	Anritsu	MP59B	M55367	Jul.08, 08	1/2 Year
6.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100340	Jul.08, 08	1/2 Year

3.2. Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and simulators



(EUT: Rock Band 2 PS wireless Drum Dongle)

3.3. Power Line Conducted Emission Test Limits

	Maximum RF Line Voltage			
Frequency	Quasi-Peak Level	Average Level		
	$dB(\mu V)$	dB(µV)		
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*		
500kHz ~ 5MHz	56	46		
5MHz ~ 30MHz	60	50		

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

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

3.4.1. Rock Band 2 PS wireless Drum Dongle (EUT)

Model Number : PDMSELEA2B

Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Detail, in Section 2.2..

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT as shown in Section 3.2..
- 3.5.2. Let the EUT work in test modes (TX Mode) and test it.

3.6.Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via PS3 connected to the power mains through a line impedance stabilization network (L.I.S.N. 2#). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. Power on the PC and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS10) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

The test result are reported on Section 3.7.

3.7. Power Line Conducted Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

The EUT with the following test modes was tested and selected (mode 1) to read Q.P values and average values, all the test results are listed in next pages.

EUT: Rock Band 2 PS wireless Drum Dongle Model No.: PDMSELEA2B

Test Date: Aug.22, 2008 Temperature: 29.5℃ Humidity: 55%

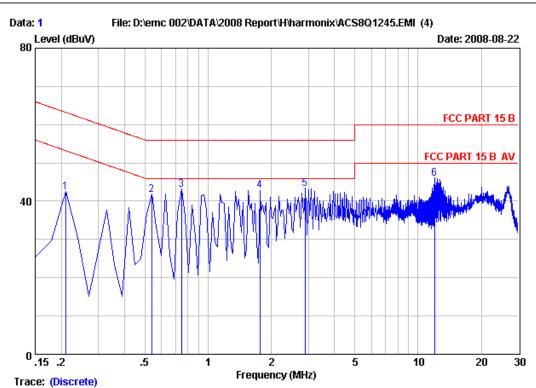
The details of test modes are as follows:

No	Test Mode	Reference Test Data No.			
No.		VA	VB		
1.	TX Mode	# 1	# 2		



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Data no

:1

Site no : Audix No.1 Conduction

Dis./Ant. :-- KNW407 1# VA

Limit :FCC PART 15 B

Env./Ins. :29.5*C/55% ESHS 10 Engineer :Sunny

EUT :Rock Band 2 PS Wireless Drum Dongle Power Rating :DC 5V From PS3 input AC120V/60Hz

Test Mode :Tx Mode M/N :PDMSELEA2B

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	n Limits (dBuV)	Margin (dB)	Remark
1	0.21	0.29	10.15	30.10	40.54	63.22	22.68	QP
2	0.54	0.20	10.14	28.46	38.80	56.00	17.20	QP
3	0.75	0.18	10.14	29.86	40.18	56.00	15.82	QP
4	1.76	0.10	10.15	29.59	39.84	56.00	16.16	QP
5	2.90	0.10	10.17	30.12	40.39	56.00	15.61	QP
6	12.00	0.24	10.26	32.55	43.05	60.00	16.95	QP

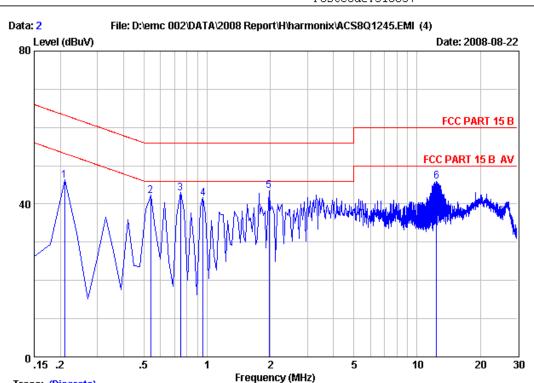
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.

2.If the average limit is met when useing a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Data no

:2

Trace: (Discrete)

Site no :Audix No.1 Conduction

Dis./Ant. :-- KNW407 1# VB

Limit :FCC PART 15 B

Env./Ins. :29.5*C/55% ESHS 10 Engineer :Sunny

EUT :Rock Band 2 PS Wireless Drum Dongle Power Rating :DC 5V From PS3 input AC120V/60Hz

Test Mode :Tx Mode M/N :PDMSELEA2B

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.21	0.11	10.15	33.05	43.31	63.22	19.91	QP
2	0.54	0.18	10.14	28.92	39.24	56.00	16.76	QP
3	0.75	0.10	10.14	29.66	39.90	56.00	16.10	QP
4	1.97	0.03	10.15	30.33	40.51	56.00	15.49	QP
5	3.31	0.03	10.17	30.07	40.27	56.00	15.73	QP
6	12.39	0.18	10.27	32.54	42.99	60.00	17.01	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.

2.If the average limit is met when useing a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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	Jun.09,08	1/2 Year
2	EMI Spectrum	Agilent	E7403A	MY42000106	May 10, 08	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	May 10, 08	1 Year
4	Amplifier	HP	8447D	2648A04738	Jul.08.08	1/2 Year
5	Bilog Antenna	Schaffner	CBL6112D	25237	Feb.21, 08	1 Year
6	RF Cable	JINGCHENG	KLMR400	3# Chamber No.1	Jul.08.08	1/2 Year
7	RF Cable	JINGCHENG	JBY400	3# Chamber No.2	Jul.08.08	1/2 Year
8	RF Cable	JINGCHENG	JBY400	3# Chamber No.3	Jul.08.08	1/2 Year
9	RF Cable	JINGCHENG	JBY400	3# Chamber No.4	Jul.08.08	1/2 Year
10	Coaxial Switch	Anritsu	MP59B	M73989	Jul.08.08	1/2 Year

Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	MY41440292	May 10, 08	1 Year
2.	Amp	HP	8449B	3008A00863	May 10, 08	1 Year
3.	Antenna	EMCO	3115	9607-4877	May 27, 08	1.5 Year
4	Antenna	EMCO	3116	00060088	May 28, 07	1.5Year
5.	HF Cable	Hubersuhne	Sucoflex104	-	May 10, 08	1 Year

4.2.Block Diagram of Test Setup

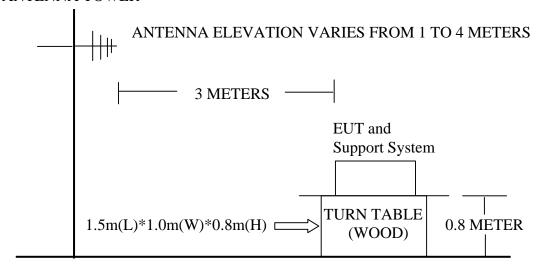
4.2.1. Block diagram of connection between the EUT and simulators



(EUT: Rock Band 2 PS wireless Drum Dongle)

4.2.2. In Anechoic Chamber

ANTENNA TOWER



GROUND PLANE

4.2.3.15.209 limits

FREQUENCY	DISTANCE	FIELD STREM	NGTHS LIMIT
MHz	Meters	$\mu V/m$	$dB(\mu V)/m$
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 1000	3	74.0 dB(μV	V)/m (Peak)
		54.0 dB(μV	V)/m (Average)

Remark : (1) Emission level $dB\mu V = 20 \log Emission level \mu V/m$

(2) The smaller limit shall apply at the cross point between two frequency bands.

			=
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12 57675 - 12 57725	322 - 335.4	3600 - 4400	(²)

4.2.4. 15.205 Restricted bands of operation

All the emissions appearing within these frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.3.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.

4.3.1. Rock Band 2 PS wireless Drum Dongle (EUT)

Model Number : PDMSELEA2B

Serial Number : N/A

4.3.2.Support Equipment: As Tested Supporting System Detail, in Section 2.2..

4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT as shown in Section 4.2..
- 4.4.2.Let the EUT work in test modes (TX Mode) and test it.

4.5.Test Procedure

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. Power on the EUT and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. 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 are set on test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position and this position was also the normal use position.

The bandwidth of the EMI test receiver (R&S ESVS20) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

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.

4.6. Radiated Emission Test Results

PASS.

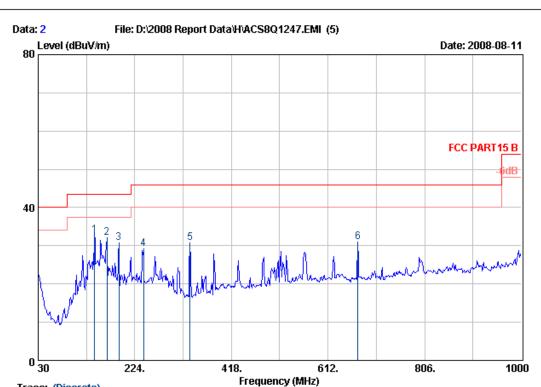
All the emissions from 30MHz to 18 GHz are comply with 15.209 limits

Test Frequency: 30MHz-1000MHz



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Trace: (Discrete)

Data no. : 2

Site no. : 3# Chamber Radiation Dis. / Ant. : 3m CBL6112D Ant. pol. : HORIZONTAL

Limit : FCC PART15 B

Env. / Ins. : 24*C/56% ESVS20 Engineer : Sunny

: Rock Band 2 PS Wireless Drum Dongle Power Rating : DC 5V From PS3 input AC120V/60Hz

Test Mode : Tx Mode M/N : PDMSELEA2B

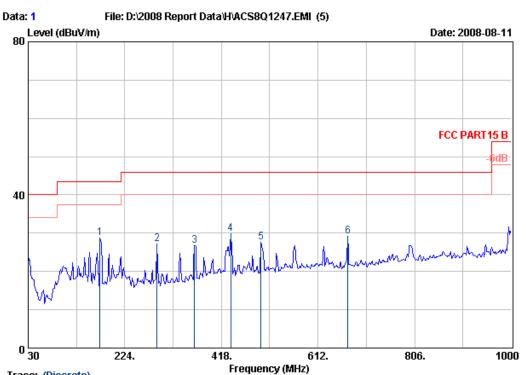
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	143.49	10.13	1.16	21.39	32.68	43.50	10.82	QP
2	167.74	8.52	1.25	22.33	32.10	43.50	11.40	QP
3	191.99	8.04	1.30	21.52	30.86	43.50	12.64	QP
4	241.46	10.18	1.44	17.63	29.25	46.00	16.75	QP
5	334.58	12.53	1.74	16.46	30.73	46.00	15.27	QP
6	672.14	17.35	2.40	11.29	31.04	46.00	14.96	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



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Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 1 Ant. pol. : VERTICAL Dis. / Ant. : 3m CBL6112D

: FCC PART15 B Limit

Env. / Ins. : 24*C/56% ESVS20 Engineer : Sunny

: Rock Band 2 PS Wireless Drum Dongle Power Rating : DC 5V From PS3 input AC120V/60Hz

Test Mode : Tx Mode M/N : PDMSELEA2B

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	174.53	8.51	1.27	18.95	28.73	43.50	14.77	QP
2	288.99	11.72	1.53	13.99	27.24	46.00	18.76	QP
3	363.68	13.40	1.76	11.65	26.81	46.00	19.19	QP
4	436.43	14.82	1.95	12.99	29.76	46.00	16.24	QP
5	497.54	15.63	2.04	9.94	27.61	46.00	18.39	QP
6	672.14	17.35	2.40	9.50	29.25	46.00	16.75	QP

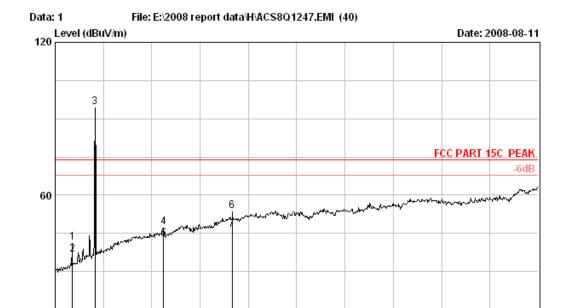
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

Test Frequency: 1GHz-18GHz



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Site no. : 3# Chamber Data no. : 1

Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL

7800.

Frequency (MHz)

11200.

14600.

18000

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Sunny

EUT : Rock Band 2 PS Wireless Drum Dongle Power Rating: DC 5V From PS3 input AC120V/60Hz

4400.

Test mode : Tx in 2408MHz Memo : M/N:PDMSELEA2B

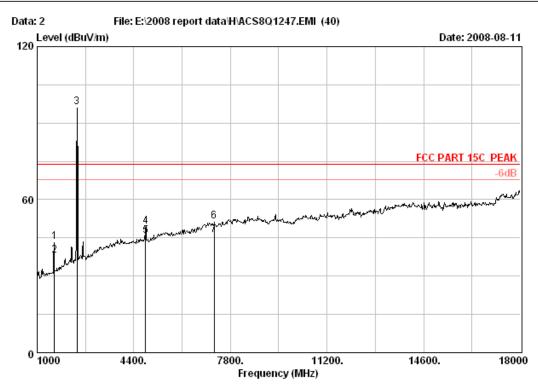
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	1605.00	26.00	5.46	35.66	45.60	41.40	74.00	32.60	Peak
2	1605.00	26.00	5.46	35.66	41.01	36.81	54.00	17.19	Average
3	2408.00	29.03	6.73	35.18	93.94	94.52	74.00	-20.52	Peak
4	4816.00	33.98	10.54	34.49	37.30	47.33	74.00	26.67	Peak
5	4816.00	33.98	10.54	34.49	32.87	42.90	54.00	11.10	Average
6	7224.00	37.36	12.16	34.44	38.68	53.76	74.00	20.24	Peak
7	7224.00	37.36	12.16	34.44	31.37	46.45	54.00	7.55	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Site no. : 3# Chamber Data no. : 2
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins.: 23*C/54% Engineer: Sunny

EUT : Rock Band 2 PS Wireless Drum Dongle Power Rating: DC 5V From PS3 input AC120V/60Hz

Test mode : Tx in 2408MHz Memo : M/N:PDMSELEA2B

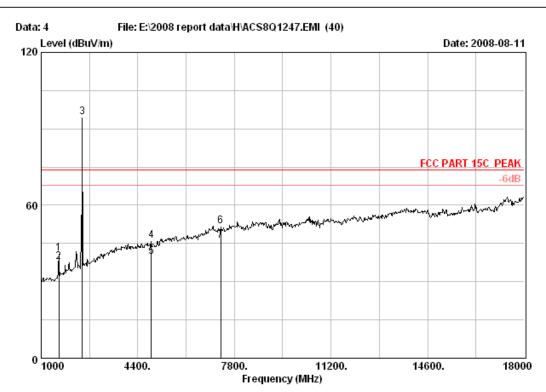
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission g Level (dBuV/m)	Limits	Margin (dB)	Remark
1	1605.00	 26.00	5.46	 35.66	47.59	43.39	 74.00	30.61	Peak
2	1605.00	26.00	5.46	35.66	42.45	38.25	54.00	15.75	Average
3	2408.00	29.03	6.73	35.18	95.78	96.36	74.00	-22.36	Peak
4	4816.00	33.98	10.54	34.49	39.55	49.58	74.00	24.42	Peak
5	4816.00	33.98	10.54	34.49	35.81	45.84	54.00	8.16	Average
6	7224.00	37.36	12.16	34.44	36.24	51.32	74.00	22.68	Peak
7	7224.00	37.36	12.16	34.44	31.16	46.24	54.00	7.76	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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: 3# Chamber Site no.

Data no. : 4 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m 3115 FACTOR

: FCC PART 15C PEAK Limit

Env. / Ins. : 23*C/54% Engineer : Sunny

: Rock Band 2 PS Wireless Drum Dongle Power Rating: DC 5V From PS3 input AC120V/60Hz

Test mode : Tx in 2440MHz Memo : M/N:PDMSELEA2B

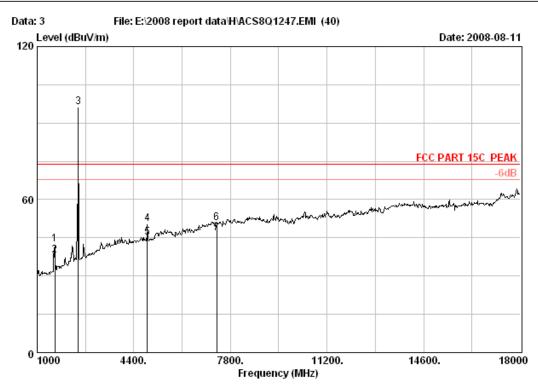
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission g Level (dBuV/m)	Limits	Margin (dB)	Remark
1	1626.00	26.09	5.50	35.64	45.26	41.21	74.00	32.79	Peak
2	1626.00	26.09	5.50	35.64	41.72	37.67	54.00	16.33	Average
3	2440.00	29.11	6.80	35.17	93.96	94.70	74.00	-20.70	Peak
4	4880.00	34.16	10.56	34.48	35.84	46.08	74.00	27.92	Peak
5	4880.00	34.16	10.56	34.48	29.65	39.89	54.00	14.11	Average
6	7320.00	37.52	12.20	34.47	36.51	51.76	74.00	22.24	Peak
7	7320.00	37.52	12.20	34.47	30.75	46.00	54.00	8.00	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Site no. : 3# Chamber Data no. : 3
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins.: 23 *C/54% Engineer: Sunny

EUT : Rock Band 2 PS Wireless Drum Dongle Power Rating: DC 5V From PS3 input AC120V/60Hz

Test mode : Tx in 2440MHz Memo : M/N:PDMSELEA2B

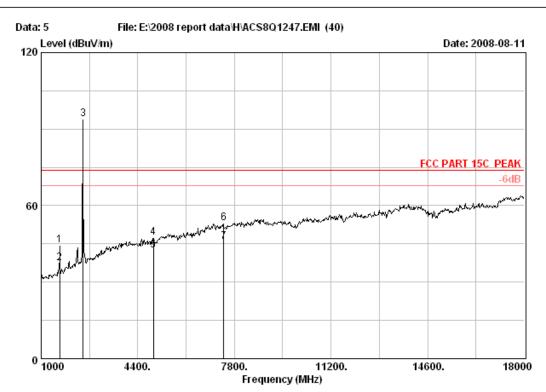
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission g Level (dBuV/m)	Limits	Margin (dB)	Remark
							(abav, m) 		
1	1626.00	26.09	5.50	35.64	46.59	42.54	74.00	31.46	Peak
2	1626.00	26.09	5.50	35.64	42.05	38.00	54.00	16.00	Average
3	2440.00	29.11	6.80	35.17	95.46	96.20	74.00	-22.20	Peak
4	4880.00	34.16	10.56	34.48	40.26	50.50	74.00	23.50	Peak
5	4880.00	34.16	10.56	34.48	34.75	44.99	54.00	9.01	Average
6	7320.00	37.52	12.20	34.47	35.71	50.96	74.00	23.04	Peak
7	7320.00	37.52	12.20	34.47	31.40	46.65	54.00	7.35	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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: 3# Chamber Site no.

Data no. : 5 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m 3115 FACTOR

: FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Sunny

: Rock Band 2 PS Wireless Drum Dongle Power Rating: DC 5V From PS3 input AC120V/60Hz

Test mode : Tx in 2476MHz : M/N:PDMSELEA2B

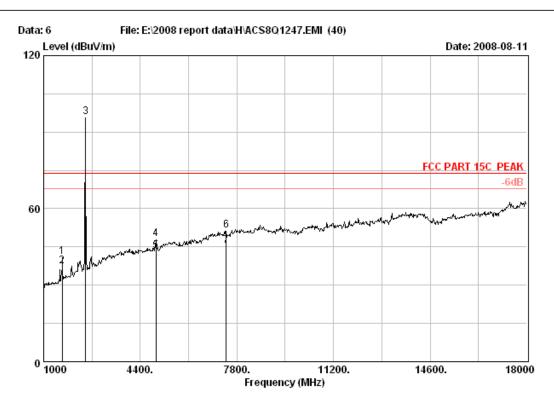
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission g Level (dBuV/m)	Limits	Margin (dB)	Remark
1	1649.00	26.18	5.53	35.61	48.30	44.40	74.00	29.60	Peak
2	1649.00	26.18	5.53	35.61	41.39	37.49	54.00	16.51	Average
3	2476.00	29.19	6.87	35.16	92.98	93.88	74.00	-19.88	Peak
4	4952.00	34.34	10.58	34.46	37.07	47.53	74.00	26.47	Peak
5	4952.00	34.34	10.58	34.46	31.94	42.40	54.00	11.60	Average
6	7428.00	37.69	12.32	34.49	37.68	53.20	74.00	20.80	Peak
7	7428.00	37.69	12.32	34.49	30.24	45.76	54.00	8.24	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Site no. : 3# Chamber Data no. : 6
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Sunny

EUT : Rock Band 2 PS Wireless Drum Dongle Power Rating: DC 5V From PS3 input AC120V/60Hz

Test mode : Tx in 2476MHz Memo : M/N:PDMSELEA2B

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	1649.00	26.18	5.53	35.61	44.91	41.01	74.00	32.99	Peak
2	1649.00	26.18	5.53	35.61	41.48	37.58	54.00	16.42	Average
3	2476.00	29.19	6.87	35.16	95.00	95.90	74.00	-21.90	Peak
4	4952.00	34.34	10.58	34.46	37.57	48.03	74.00	25.97	Peak
5	4952.00	34.34	10.58	34.46	33.09	43.55	54.00	10.45	Average
6	7428.00	37.69	12.32	34.49	35.90	51.42	74.00	22.58	Peak
7	7428.00	37.69	12.32	34.49	29.91	45.43	54.00	8.57	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

5. CARRIER FREQUENCY SEPARATION TEST

5.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.10, 08	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	May.27, 08	1.5 Year
3	RF Cable	Hubersuhner	SUCOFLEX 102	2861812	May.28, 08	1Year
4	RF Cable	Hubersuhner	SUCOFLEX 102	28862212	May.28, 08	1 Year

5.2.Test Information

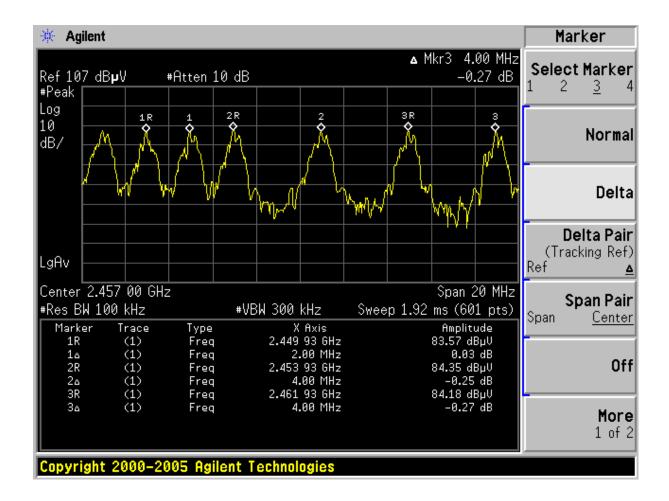
EUT:	Rock Band 2 PS wireless Drum Dongle
M/N:	PDMSELEA2B
Test Date:	Aug.12, 2008
Ambient Temperature:	23℃
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.247(a)(1)
Test mode:	TX (Hopping on)
Test By:	Sunny

5.3.Limit

Frequency hopping systems shall have hopping channel carrier frequency separated by a minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater.

5.4. Test Results (Pass.)

carrier frequency separating	20dB Bandwidth (MHz)	Conclusion	
2MHz(minimum)	1.07(see below test data)	DACC	
4MHz(maximum)		PASS	



6. 20 DB BANDWIDTH TEST

6.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
						Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.10, 08	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May.28, 08	1 Year
3	Horn Antenna	EMCO	3115	9607-4877	May. 27, 08	1.5 Year
4	RF Cable	Hubersuhner	SUCOFLEX 102	2861812	May.28, 08	1Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	28862212	May.28, 08	1 Year

6.2.Test Information

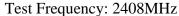
EUT:	Rock Band 2 PS wireless Drum Dongle
M/N:	PDMSELEA2B
Test Date:	Aug.12, 2008
Ambient Temperature:	23℃
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.247(a)(1)
Test mode:	TX (Hopping off)
Test Frequency:	Low: 2408MHz Mid: 2440MHz High: 2476MHz
Test By:	sunny

6.3.Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

6.4. Test Results

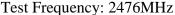
СН	20dB Bandwidth (MHz)	Limit (kHz)	Conclusion
(Low)	1.070		PASS
(Mid)	1.060		PASS
(High)	1.060		PASS





Test Frequency: 2440MHz







7. NUMBER OF HOPPING FREQUENCY TEST

7.1.Test Equipment

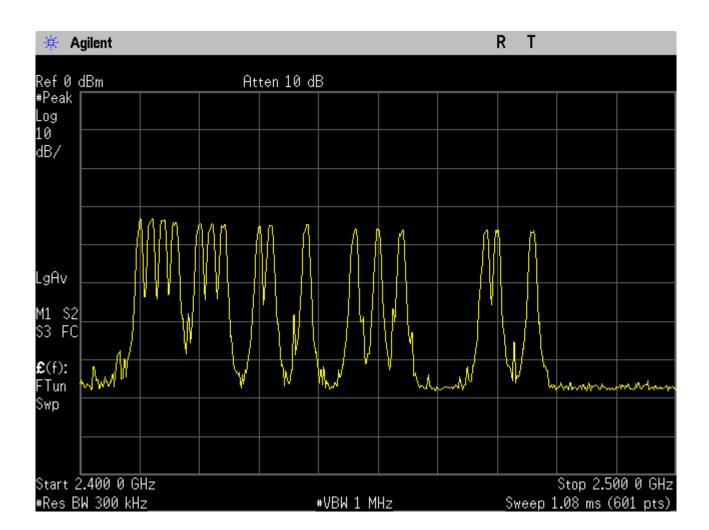
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
						Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.10, 08	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May.28, 08	1 Year
3	Horn Antenna	EMCO	3115	9607-4877	May. 27, 08	1.5 Year
4	RF Cable	Hubersuhner	SUCOFLEX 102	2861812	May.28, 08	1Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	28862212	May.28, 08	1 Year

7.2.Test Information

EUT:	Rock Band 2 PS wireless Drum Dongle
M/N:	PDMSELEA2B
Test Date:	Aug.12, 2008
Ambient Temperature:	23℃
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.247(a)(1)(iii)
Test mode:	TX (Hopping on)
Test Frequency:	From 2408MHz to 2476MHz
Test By:	Jamy

7.3.Test Results

Number of channel	Limit	Conclusion
16	>=15	PASS



8. DWELL TIME

8.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,10, 08	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May,28, 08	1 Year
3	Horn Antenna	EMCO	3115	9607-4877	May, 27, 08	1.5 Year
4	RF Cable	Hubersuhner	SUCOFLEX 102	2861812	May,28, 08	1Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	28862212	May,28, 08	1 Year

8.2.Test Information

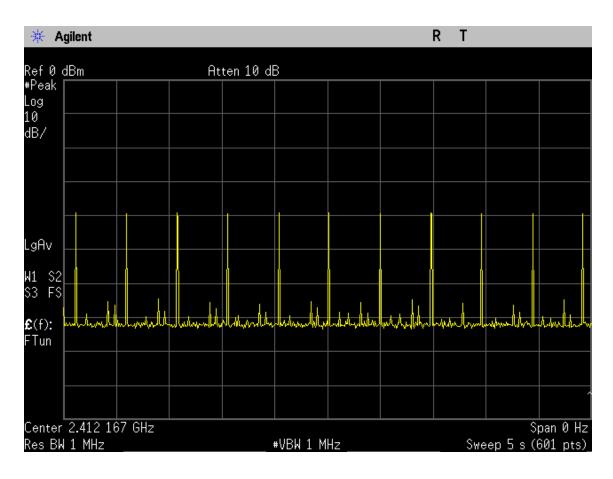
EUT:	Rock Band 2 PS wireless Drum Dongle
M/N:	PDMSELEA2B
Test Date:	Aug.20, 2008
Ambient Temperature:	23℃
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.247(a)(1)(iii)
Test mode:	Transmitting, Hopping On
Test By:	Sunny

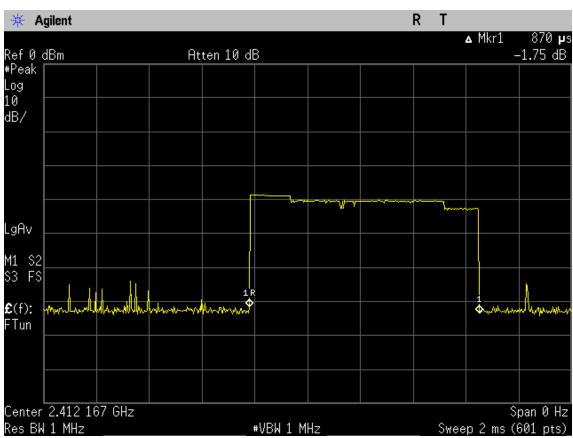
8.3. Test Results

This system hopping 11 hops in any 5s, and for each hop it transmit 1 pulses, the pulse dwell are 0.870ms, so the dwell times are:

11/5*16*0.4*0.870=12.25ms

dwell time	Limit	Conclusion
12.25ms	<400ms	PASS





9. MAXIMUM PEAK OUTPUT POWER TEST

9.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.10, 08	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	May. 27, 08	1.5 Year
3	Horn Antenna	EMCO	3115	9510-4580	May.11, 07	1.5 Year
4	Signal Generator	НР	83732B	6K00003262	May.10, 08	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX	182769/4	May.28, 08	1Year
6	RF Cable	Hubersuhner	SUCOFLEX	182768/4	May.28, 08	1Year
7	RF Cable	Hubersuhner	SUCOFLEX	182771/4	May.28, 08	1Year
8	RF Cable	Hubersuhner	SUCOFLEX 102	2861812	May.28, 08	1Year
9	RF Cable	Hubersuhner	SUCOFLEX 104	27147314	May.28, 08	1Year
10	Amplifier	HP	8449B	3008A00863	May.10, 08	1 Year

9.2.Test Procedure

- (1). The EUT was placed on a 0.8m high table in the chamber and turned on in continuously transmitting mode.
- (2). The maximum fundamental emission at 3m distance was measured and recorded with receive antenna in both vertical and horizontal by rotating the turntable and by lowering the receive antenna.
- (3). The EUT was then removed and replaced with a substitution antenna in the same position and the substitution antenna must have the same polarization with the receive antenna.
- (4). A signal which have the same frequency obtained in step 2 was fed to the substitution, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver, the level of the signal generator was adjusted until the measured field strength level in step 2 was obtained, recorded the level of the signal generator.
- (5). Repeated step 4 with both antenna polarizations
- (6). The radiated power is equal to the power supplied by the signal generator and corrections due to the gain of the substitution antenna and the cable loss between the signal generator and the substitution antenna.

9.3.Test Information

EUT:	Rock Band 2 PS wireless Drum Dongle
M/N:	PDMSELEA2B
Test Date:	Aug.12, 2008
Ambient Temperature:	24°C
Relative Humidity:	58%
Test standard:	FCC PART 15C: 15.247(b)(1)
Test mode:	TX (Hopping off)
Test Frequency:	Low: 2408MHz Mid: 2440MHz High: 2476MHz
Test By:	Sunny

9.4.Test Results

СН	Freq (MHz)	Ant Pol.	Electric Field Strength (dBuV/m)	SG Reading (dBm)	Tx Cable Loss (dB)	Tx Ant. Gain (dBi)	Out put power Result (dBm)	Limit 0.125W 21(dBm)	Margin (dB)
Low	2408	Н	94.52	-5.62	6.06	9.25	-2.43	21	23.43
Low	2408	V	96.36	-3.99	6.06	9.25	-0.80	21	21.8
Mid	2440	Н	94.70	-5.49	6.08	9.30	-2.27	21	23.27
Wiid	2440	V	96.20	-4.34	6.08	9.30	-1. 12	21	22.12
Ціа	2474	Н	93.88	-6.29	6.14	9.33	-3.10	21	24.1
Hig	2474	V	95.90	-4.69	6.14	9.33	-1.50	21	22.5

Result = SG Reading – Tx Cable Loss + Tx Antenna Gain – EUT Antenna Gain

Rx-Antenna: Horn Antenna Tx-Antenna: Horn Antenna

10.BAND EDGE COMPLIANCE TEST

10.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.10, 08	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	May.27, 08	1.5 Year
3	Amplifier	HP	8449B	3008A00863	May.10, 08	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX	182769/4	May.28, 08	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX	182768/4	May.28, 08	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX	182771/4	May.28, 08	1 Year

10.2.Limit

According to §15.247(c), in any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

10.3.Test Produce

- 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=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

10.4.Test Results

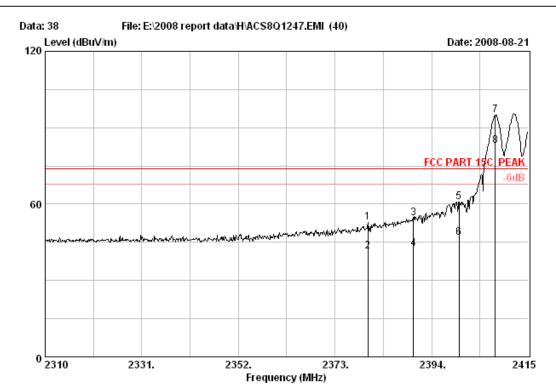
Pass (The testing data was attached in the next pages.)

HOPPING ON



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Postcode:518057



Site no. : 3# Chamber Data no. : 38

Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Sunny

EUT : Rock Band 2 PS Wireless Drum Dongle Power Rating: DC 5V From PS3 input AC120V/60Hz

Test mode : Tx in 2408MHz Memo : M/N:PDMSELEA2B

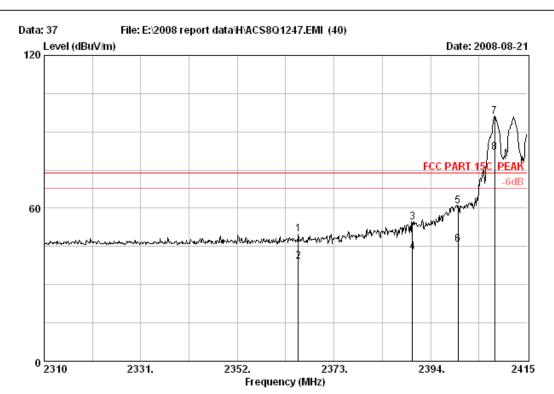
		Ant.	Cable	Amp		Emission	•		
	Freq.	Factor	Loss	Factor	Reading	, Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2380.14	28.95	6.71	35.19	52.46	52.93	74.00	21.07	Peak
2	2380.14	28.95	6.71	35.19	41.02	41.49	54.00	12.51	Average
3	2390.00	28.99	6.71	35.18	53.94	54.46	74.00	19.54	Peak
4	2390.00	28.99	6.71	35.18	42.03	42.55	54.00	11.45	Average
5	2400.00	28.99	6.73	35.18	60.27	60.81	74.00	13.19	Peak
6	2400.00	28.99	6.73	35.18	46.12	46.66	54.00	7.34	Average
7	2407.86	29.03	6.73	35.18	94.47	95.05	74.00	-21.05	Peak
8	2407.86	29.03	6.73	35.18	82.35	82.93	54.00	-28.93	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Site no. : 3# Chamber Data no. : 37
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Sunny

EUT : Rock Band 2 PS Wireless Drum Dongle Power Rating: DC 5V From PS3 input AC120V/60Hz

Test mode : Tx in 2408MHz Memo : M/N:PDMSELEA2B

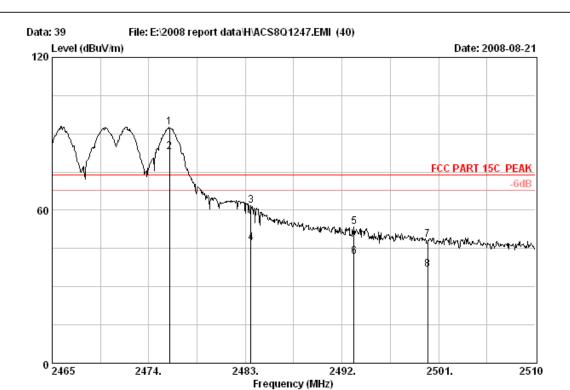
		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	g Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2365.23	28.91	6.69	35.19	49.48	49.89	74.00	24.11	Peak
2	2365.23	28.91	6.69	35.19	38.59	39.00	54.00	15.00	Average
3	2390.00	28.99	6.71	35.18	54.02	54.54	74.00	19.46	Peak
4	2390.00	28.99	6.71	35.18	42.15	42.67	54.00	11.33	Average
5	2400.00	28.99	6.73	35.18	60.31	60.85	74.00	13.15	Peak
6	2400.00	28.99	6.73	35.18	45.31	45.85	54.00	8.15	Average
7	2407.93	29.03	6.73	35.18	95.42	96.00	74.00	-22.00	Peak
8	2407.93	29.03	6.73	35.18	81.26	81.84	54.00	-27.84	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Site no. : 3# Chamber Data no. : 39

Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Sunny

EUT : Rock Band 2 PS Wireless Drum Dongle Power Rating: DC 5V From PS3 input AC120V/60Hz

Test mode : Tx in 2476MHz Memo : M/N:PDMSELEA2B

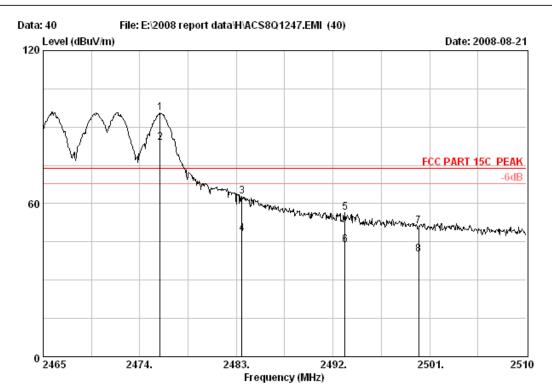
		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	[Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2475.95	29.19	6.87	35.16	91.58	92.48	74.00	-18.48	Peak
2	2475.95	29.19	6.87	35.16	82.10	83.00	54.00	-29.00	Average
3	2483.50	29.19	6.87	35.16	61.03	61.93	74.00	12.07	Peak
4	2483.50	29.19	6.87	35.16	46.11	47.01	54.00	6.99	Average
5	2493.13	29.23	6.91	35.15	52.44	53.43	74.00	20.57	Peak
6	2493.13	29.23	6.91	35.15	40.84	41.83	54.00	12.17	Average
7	2500.00	29.23	6.91	35.15	47.56	48.55	74.00	25.45	Peak
8	2500.00	29.23	6.91	35.15	35.68	36.67	54.00	17.33	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Site no. : 3# Chamber Data no. : 40
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Sunny

EUT : Rock Band 2 PS Wireless Drum Dongle Power Rating: DC 5V From PS3 input AC120V/60Hz

Test mode : Tx in 2476MHz Memo : M/N:PDMSELEA2B

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2475.90	29.19	6.87	35.16	94.58	95.48	74.00	-21.48	Peak
2	2475.90	29.19	6.87	35.16	83.15	84.05	54.00	-30.05	Average
3	2483.50	29.19	6.87	35.16	61.99	62.89	74.00	11.11	Peak
4	2483.50	29.19	6.87	35.16	47.13	48.03	54.00	5.97	Average
5	2493.13	29.23	6.91	35.15	55.64	56.63	74.00	17.37	Peak
6	2493.13	29.23	6.91	35.15	42.68	43.67	54.00	10.33	Average
7	2500.00	29.23	6.91	35.15	50.16	51.15	74.00	22.85	Peak
8	2500.00	29.23	6.91	35.15	38.96	39.95	54.00	14.05	Average

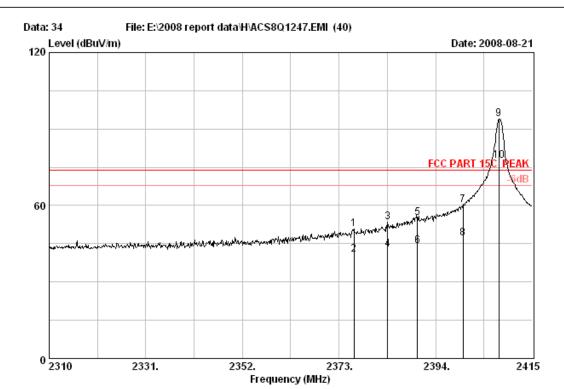
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

HOPPING OFF



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Site no. : 3# Chamber Data no. : 34

Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Sunny

EUT : Rock Band 2 PS Wireless Drum Dongle Power Rating: DC 5V From PS3 input AC120V/60Hz

Test mode : Tx in 2408MHz Memo : M/N:PDMSELEA2B

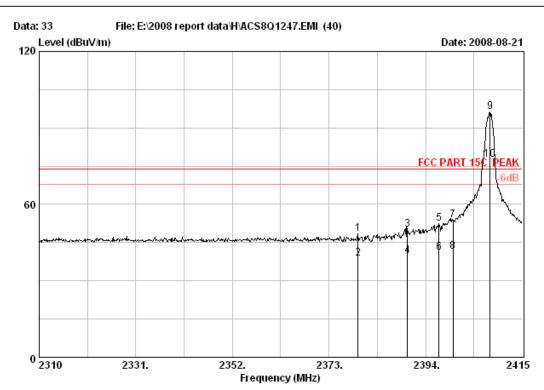
	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	2376.26	28.95	6.71	35.19	50.50	50.97	74.00	23.03	Peak
2	2376.26	28.95	6.71	35.19	40.45	40.92	54.00	13.08	Average
3	2383.61	28.95	6.71	35.19	52.93	53.40	74.00	20.60	Peak
4	2383.61	28.95	6.71	35.19	42.36	42.83	54.00	11.17	Average
5	2390.00	28.99	6.71	35.18	54.56	55.08	74.00	18.92	Peak
6	2390.00	28.99	6.71	35.18	43.69	44.21	54.00	9.79	Average
7	2400.00	28.99	6.73	35.18	59.61	60.15	74.00	13.85	Peak
8	2400.00	28.99	6.73	35.18	46.45	46.99	54.00	7.01	Average
9	2407.76	29.03	6.73	35.18	93.38	93.96	74.00	-19.96	Peak
10	2407.76	29.03	6.73	35.18	77.12	77.70	54.00	-23.70	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Site no. : 3# Chamber Data no. : 33
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Sunny

EUT : Rock Band 2 PS Wireless Drum Dongle Power Rating: DC 5V From PS3 input AC120V/60Hz

Test mode : Tx in 2408MHz Memo : M/N:PDMSELEA2B

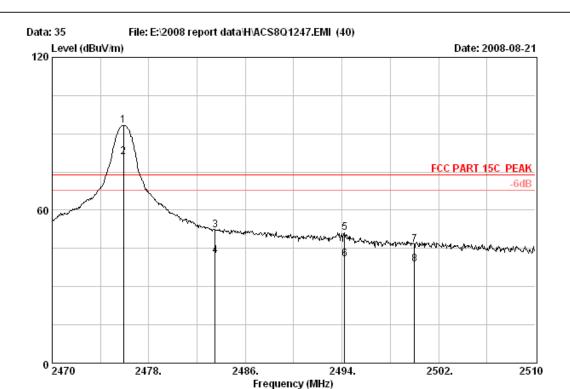
		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	[Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2379.30	 28.95	6.71	35.19	47.93	48.40	74.00	25.60	Peak
2	2379.30	28.95	6.71	35.19	38.16	38.63	54.00	15.37	Average
3	2390.00	28.99	6.71	35.18	49.53	50.05	74.00	23.95	Peak
4	2390.00	28.99	6.71	35.18	39.34	39.86	54.00	14.14	Average
5	2396.94	28.99	6.73	35.18	51.93	52.47	74.00	21.53	Peak
6	2396.94	28.99	6.73	35.18	40.64	41.18	54.00	12.82	Average
7	2400.00	28.99	6.73	35.18	53.17	53.71	74.00	20.29	Peak
8	2400.00	28.99	6.73	35.18	41.01	41.55	54.00	12.45	Average
9	2407.97	29.03	6.73	35.18	95.74	96.32	74.00	-22.32	Peak
10	2407.97	29.03	6.73	35.18	77.12	77.70	54.00	-23.70	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Site no. : 3# Chamber Data no. : 35

Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Sunny

EUT : Rock Band 2 PS Wireless Drum Dongle Power Rating: DC 5V From PS3 input AC120V/60Hz

Test mode : Tx in 2476MHz Memo : M/N:PDMSELEA2B

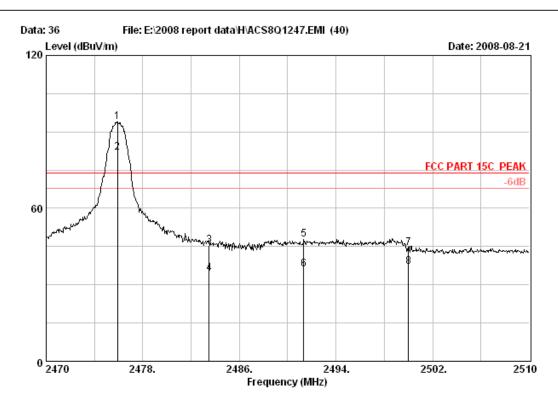
		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	, Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2475.92	29.19	6.87	35.16	92.44	93.34	74.00	-19.34	Peak
2	2475.92	29.19	6.87	35.16	80.16	81.06	54.00	-27.06	Average
3	2483.50	29.19	6.87	35.16	51.35	52.25	74.00	21.75	Peak
4	2483.50	29.19	6.87	35.16	41.07	41.97	54.00	12.03	Average
5	2494.20	29.23	6.91	35.15	50.25	51.24	74.00	22.76	Peak
6	2494.20	29.23	6.91	35.15	39.68	40.67	54.00	13.33	Average
7	2500.00	29.23	6.91	35.15	45.53	46.52	74.00	27.48	Peak
8	2500.00	29.23	6.91	35.15	37.69	38.68	54.00	15.32	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Site no. : 3# Chamber Data no. : 36
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Sunny

EUT : Rock Band 2 PS Wireless Drum Dongle Power Rating: DC 5V From PS3 input AC120V/60Hz

Test mode : Tx in 2476MHz Memo : M/N:PDMSELEA2B

	E	Ant.	Cable	Amp	D14	Emission	T double -	W =	D
	Freq. (MHz)	Factor (dB/m)	Loss (dB)	ractor (dB)	Reading (dBuV)	(dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2475.92	29.19	6.87	35.16	93.19	94.09	74.00	-20.09	Peak
2	2475.92	29.19	6.87	35.16	81.06	81.96	54.00	-27.96	Average
3	2483.50	29.19	6.87	35.16	44.57	45.47	74.00	28.53	Peak
4	2483.50	29.19	6.87	35.16	33.57	34.47	54.00	19.53	Average
5	2491.32	29.23	6.91	35.15	46.90	47.89	74.00	26.11	Peak
6	2491.32	29.23	6.91	35.15	35.26	36.25	54.00	17.75	Average
7	2500.00	29.23	6.91	35.15	43.40	44.39	74.00	29.61	Peak
8	2500.00	29.23	6.91	35.15	36.01	37.00	54.00	17.00	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

11. ANTENNA REQUIREMENT

10.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used for this product is a PCB integral antenna that no antenna other than that furnished by the responsible party shall be used with the device, The maximum peak gain of this antenna is only 0dBi.

12.DEVIATION TO TEST SPECIFICATIONS

[NONE]