APPLICATION FOR CERTIFICATION On Behalf of

RedOctane, Inc.

Wireless Turntable Controller for PS2 & PS3

Model Number: 95837.809

FCC ID: VFI95837809

Prepared for: RedOctane, Inc.

444 Castro Street, Suite#140, Mountain View, CA

94041,USA

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-F09160

Date of Test : Jul.17, 2009

Date of Report : Aug.11, 2009

TABLE OF CONTENTS

De	escription	Page
1.	SUMMARY OF STANDARDS AND RESULTS	1-1
	1.1. Description of Standards and Results	1-1
2.	GENERAL INFORMATION	2-1
_,	2.1. Description of Device (EUT)	
	2.2. Test Facility	
	2.3. Test Uncertainty (95% confidence levels, k=2)	
3.	POWER LINE CONDUCTED EMISSION TEST	
4.	RADIATED EMISSION TEST	4-1
	4.1. Test Equipment	
	4.2. Block Diagram of Test Setup	
	4.3. Radiated Emission Limit Standard: FCC 15.209 and 15.249	4-2
	4.4. EUT Configuration on Test	4-3
	4.5. Operating Condition of EUT	
	4.6. Test Procedure	
	4.7. Radiated Emission Test Results	
	4.8. Duty factor	
5.	20DB BANDWIDTH TEST	5-1
	5.1. Test Equipment	5-1
	5.2. Limit	5-1
	5.3. Test Results	5-1
6.	BAND EDGE COMPLIANCE TEST	6-1
	6.1. Test Equipment	6-1
	6.2. Limit	
	6.3. Test Produce	
	6.4. Test Results	
7.	DEVIATION TO TEST SPECIFICATIONS	7-1
8.	PHOTOGRAPH OF TEST	8-1
	8.1. Photos of Radiated Emission Test (In Anechoic Chamber)	8-1
9.	PHOTOGRAPH OF EUT	9-1

TEST REPORT CERTIFICATION

Applicant : RedOctane, Inc.

Manufacturer 1# : Fugang Electronic (Dongguan) Co., Ltd.

Manufacturer 2# : Berway Technology Ltd.

EUT Description : Wireless Turntable Controller for PS2 & PS3

FCC ID : VFI95837809

(A)MODEL NO. : 95837.809

(B)SERIAL NO. : N/A (C)POWER SUPPLY : DC 3V (D)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:	Jul.17, 2009
Prepared by:	Edie Huare
	Edie Huang / Assistant
Reviewer:	Janken
	Jamy Yu / Senior Engineer

Approved & Authorized Signer



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 C63.4-2003	N/A				
Radiated Emission Test	FCC Part 15C: 15.209 FCC Part 15C: 15.249 ANSI C63.4-2003	PASS				
Band Edge Compliance Test	FCC Part 15: 15.249	PASS				
20dB Bandwidth Test	FCC Part 15: 15.215	PASS				

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product name : Wireless Turntable Controller for PS2 & PS3

Model Number : 95837.809

FCC ID : VFI95837809

Operation frequency: 2410MHz----2469.2MHz

Modulation : MSK

Technology

Maximum emission : 89.52dBuV/m@3m on 2469.2MHz

Antenna Assembly

Gain

: 0dBi(maximum)

Power Supply : DC 3V

(Note: New batteries were used for all test)

Applicant : RedOctane, Inc.

444 Castro Street, Suite#140, Mountain View, CA

94041,USA

Manufacturer 1# : Fugang Electronic (Dongguan) Co., Ltd.

Junda Industry District, Dong-Keng, Dong-Guan, China

Manufacturer 2# : Berway Technology Ltd.

Unit1301-03, 13/F., No.88 Kwai Cheong Road, Kwai Chung,

N.T., H.K.

Date of Test : Jul.17, 2009

Date of Receipt : Jul.16, 2009

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 : Jan. 31, 2007 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, 2009

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

Uncertainty for Radiation Emission test	3.78 dB (Polarize: V)
in 3m chamber	4.20 dB (Polarize: H)
Uncertainty for Bandwidth test	$1x10^{-9}$
Uncertainty for DC power test	0.042 %
Uncertainty for test site temperature and	0.6℃
humidity	3%

3. POWER LINE CONDUCTED EMISSION TEST

According to Paragraph (f) 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.05,08	1 Year
2.	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 09	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 09	1 Year
4.	Amplifier	HP	8447D	2648A04738	May.08, 09	1 Year
5.	Bilog Antenna	Schaffner	CBL6111C	2598	Nov.10, 08	1 Year
6.	RF Cable	MIYAZAKI	8D-FB	3# Chamber No.1	May.08, 09	1 Year
7.	Coaxial Switch	Anritsu	MP59B	M73989	May.08, 09	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, 09	1 Year
2.	Horn Antenna	EMCO	3115	9607-4877	May.27, 08	1.5 Year
3	Amplifier	Agilent	8449B	3008A02495	Nov.24,08	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08, 09	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	271471/4	May.08, 09	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX102	29086/2	May.08, 09	1 Year

4.2. Block Diagram of Test Setup

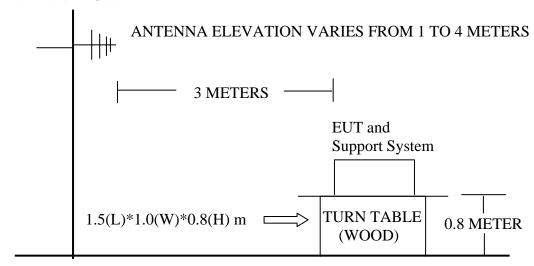
4.2.1.Block Diagram of connection between EUT and simulators

EUT

(EUT: Wireless Turntable Controller for PS2 & PS3)

4.2.2. Anechoic Chamber Setup Diagram

ANTENNA TOWER



GROUND PLANE

4.3. Radiated Emission Limit Standard: FCC 15.209 and 15.249

FREQUENCY	DISTANCE	FIELD STREN	NGTHS LIMIT
MHz	Meters	μV/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 1000MHz	3	74.0 dB(μV	/)/m (Peak)
		54.0 dB(μV	/)/m (Average)
Field Strength of	3	94.0 dB(μV	/)/m (Average)
Fundamental emission for		114.0 dB(μ	V)/m(Peak)
2.4GHz-2.4835GHz			
Field Strength of	3	74.0 dB(μV	/)/m (Peak)
Harmonics		54.0 dB(μV	/)/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.
- (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.

4.4.1. Wireless Turntable Controller for PS2 & PS3 (EUT)

Model Number : 95837.809 Serial Number : N/A

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 C63.4-2003 on radiated emission Test.

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 VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz

This product is pulse modulated, pulse desensitization correction factor was used to determine the Average 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.

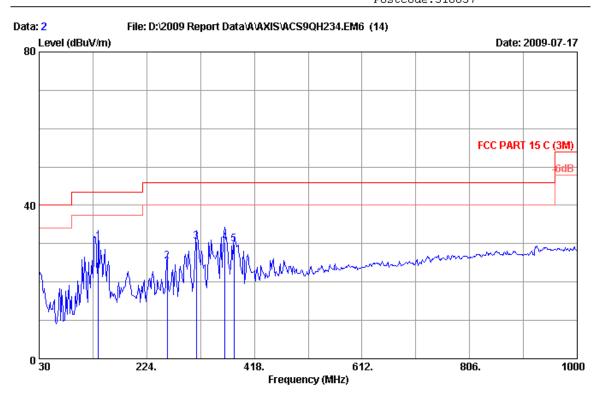
All the emissions from 30MHz to 25GHz were comply with the 15.249 and 15.209 limit.

Test Frequency: 30MHz-1000MHz



No.6,Ke Feng Road,Block 52, Shenzhen Science&Industry Park Nantou Shenzhen,Guangdong,China

Tel:+86-755-26639495 Fax:+86-755-26632877 Postcode:518057



Site no. : 3m Chamber Data no. : 2

Dis. / Ant. : 3m CBL6111C Ant. pol. : HORIZONTAL

Limit : FCC PART 15 C (3M)

Env. / Ins. : 24*C/56% Engineer : Cary EUT : Wireless Turntable Controller For PS2&PS3

Power Rating : DC 3V
Test Mode : Tx mode
M/N : 95837.809

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)		Limits (dBuV/m)	Margin (dB)	Remark	
1	136.700	12.02	1.04	17.39	30.45	43.50	13.05	QP	
2	260.860	13.74	1.66	9.92	25.32	46.00	20.68	QP	
3	313.240	13.80	1.76	14.86	30.42	46.00	15.58	QP	
4	364.650	15.38	1.86	13.09	30.33	46.00	15.67	QP	
5	381.140	15.64	1.89	12.29	29.82	46.00	16.18	QP	

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

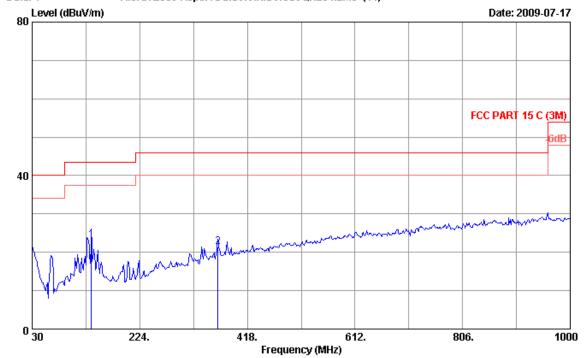
The emission levels that are 20dB below the official limit are not reported.



No.6, Ke Feng Road, Block 52, Shenzhen Science&Industry Park Nantou Shenzhen, Guangdong, China Tel:+86-755-26639495 Fax:+86-755-26632877

Postcode:518057

File: D:\2009 Report Data\A\AXIS\ACS9QH234.EM6 (14) Data: 1



Site no. : 3m Chamber

Data no. : 1 Ant. pol. : VERTICAL Dis. / Ant. : 3m CBL6111C

: FCC PART 15 C (3M) Limit

Env. / Ins. : 24*C/56% Engineer : Cary : Wireless Turntable Controller For PS2&PS3

Power Rating : DC 3V Test Mode : Tx mode M/N : 95837.809

		Ant.	Cable		Emission				
No.	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	136.700	12.02	1.04	10.02	23.08	43.50	20.42	QP	
2	364.650	15.38	1.86	4.15	21.39	46.00	24.61	QP	

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

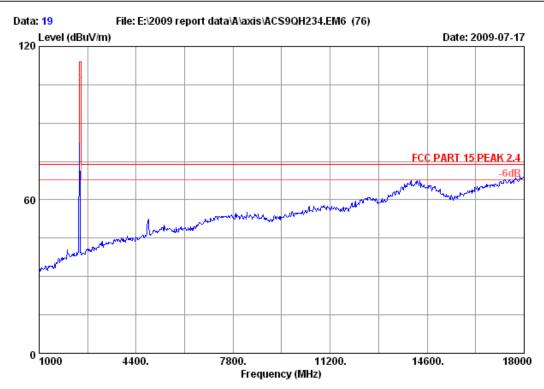
2. The emission levels that are 20dB below the official limit are not reported.

Test Frequency: 1GHz-18GHz



No.6 Ke Feng Road, Block 52, ShenZhen Science & Industry Park Noutou, ShenZhen, GuangDong, China Tel:+86-755-26639495-7

Fax:+86-755-26632877 Postcode:518057



Site no. : 3m Chamber Data no. : 19
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL

Limit : FCC PART 15 PEAK 2.4

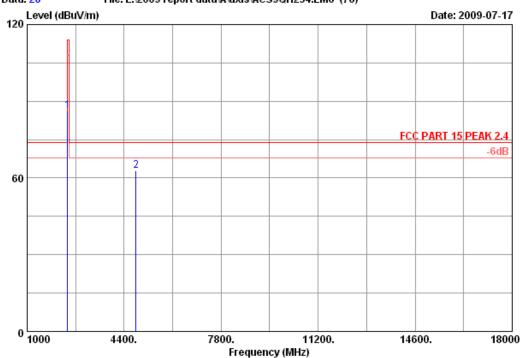
Env. / Ins. : 25*C/60% Engineer :Power Feng

EUT : Wireless Turntable Controller for PS2&PS3

Power : DC 3V Test mode : Tx 2410MHz M/N:95837.809







 Site no.
 : 3m Chamber
 Data no.
 : 20

 Dis. / Ant.
 : 3m 3115(0905)
 Ant. pol.
 : VERTICAL

Limit : FCC PART 15 PEAK 2.4

Env. / Ins. : 25*C/60% Engineer :Power Feng

EUT : Wireless Turntable Controller for PS2&PS3

Power : DC 3V Test mode : Tx 2410MHz M/N:95837.809

		Ant.	Cable	Amp.		Emissio:	n		
	-				Reading (dbuv)			_	Remark
	(MHZ)	(GD/III)	(ав)	(ав)	(abav)	(abav/m)	(ασαν/π)	(ав)	
1	2410.000	28.48	7.66	33.90	83.96	86.20	114.00	27.80	Peak
2	4820.000	34.47	10.80	33.35	50.76	62.68	74.00	11.32	Peak

Remarks:

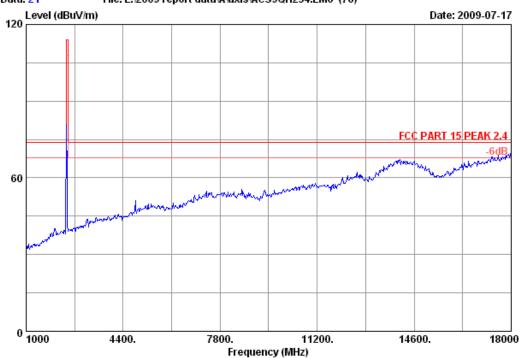
- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

Average emissions Level

Freq	Ant.	Peak Level	PDCF	AV Level	AV Limit	Margin				
(MHz)	Plo.	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)				
4820.0	V	62.68	17.72	44.96	54	9.04				
Note: A	Note: AV Level= Peak Level – PDCF									







Site no. : 3m Chamber Data no. : 21

Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL

Limit : FCC PART 15 PEAK 2.4

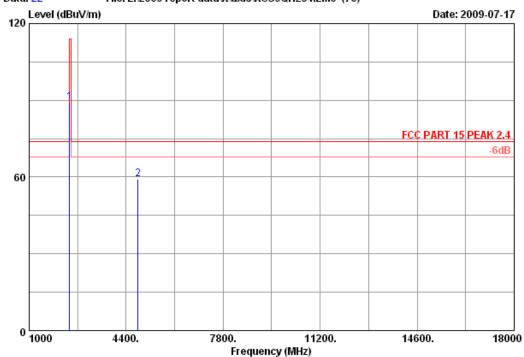
Env. / Ins. : 25*C/60% Engineer :Power Feng

EUT : Wireless Turntable Controller for PS2&PS3

Power : DC 3V Test mode : Tx 2410MHz M/N:95837.809







Site no. : 3m Chamber Data no. : 22

Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL

Limit : FCC PART 15 PEAK 2.4

Env. / Ins. : 25*C/60% Engineer :Power Feng

EUT : Wireless Turntable Controller for PS2&PS3

Power : DC 3V Test mode : Tx 2410MHz M/N:95837.809

	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	2410.000	28.48	7.66	33.90	86.93	89.17	114.00	24.83	Peak	
2	4820.000	34.47	10.80	33.35	47.27	59.19	74.00	14.81	Peak	

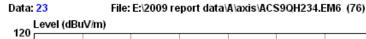
Remarks

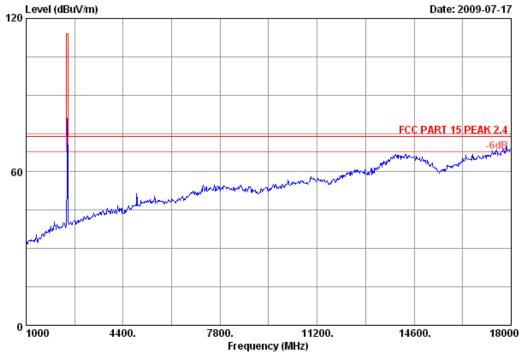
- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

Average emissions Level

Freq	Ant.	Peak Level	PDCF	AV Level	AV Limit	Margin		
(MHz)	Plo.	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		
4820.0	Н	59.19	17.72	41.47	54	12.53		
Note: AV Level= Peak Level – PDCF								







Site no. : 3m Chamber Data no. : 23

Ant. pol. : HORIZONTAL Dis. / Ant. : 3m 3115(0905)

Limit : FCC PART 15 PEAK 2.4

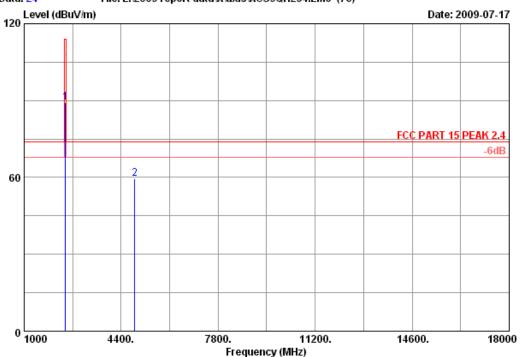
Env. / Ins. : 25*C/60% Engineer : Power Feng

: Wireless Turntable Controller for PS2&PS3

Power : DC 3V : Tx 2440MHz Test mode M/N:95837.809







Site no. : 3m Chamber Data no. : 24

Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL

Limit : FCC PART 15 PEAK 2.4

Env. / Ins. : 25*C/60% Engineer :Power Feng

EUT : Wireless Turntable Controller for PS2&PS3

Power : DC 3V Test mode : Tx 2440MHz M/N:95837.809

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 2440.000 28.53 7.72 33.88 86.75 89.12 114.00 24.88 Peak
2 4880.000 34.78 10.95 33.36 47.00 59.37 74.00 14.63 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.

Average emissions Level

Freq	Ant.	Peak Level	PDCF	AV Level	AV Limit	Margin		
(MHz)	Plo.	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		
4880.0	Н	59.37	17.72	41.65	54	12.35		
Note: AV Level= Peak Level – PDCF								

18000

14600.



0 1000

No.6 Ke Feng Road, Block 52, ShenZhen Science & Industry Park Noutou, ShenZhen, GuangDong, China Tel:+86-755-26639495-7 Fax:+86-755-26632877 Postcode:518057



Site no. : 3m Chamber Data no. : 25
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL

7800.

Limit : FCC PART 15 PEAK 2.4

Env. / Ins. : 25*C/60% Engineer :Power Feng

Frequency (MHz)

11200.

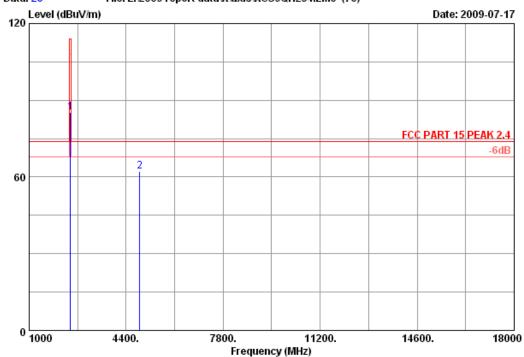
EUT : Wireless Turntable Controller for PS2&PS3

Power : DC 3V Test mode : Tx 2440MHz M/N:95837.809

4400.







 Site no.
 : 3m Chamber
 Data no.
 : 26

 Dis. / Ant.
 : 3m 3115(0905)
 Ant. pol.
 : VERTICAL

Limit : FCC PART 15 PEAK 2.4

Env. / Ins. : 25*C/60% Engineer :Power Feng

EUT : Wireless Turntable Controller for PS2&PS3

Power : DC 3V Test mode : Tx 2440MHz M/N:95837.809

Ant. C			Amp.		Emission			
-				Reading (dbuv)			_	Remark
2440.000 4880.000					85.15 62.17		28.85 11.83	

Remarks:

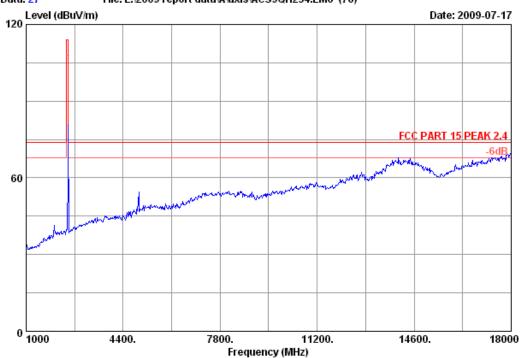
- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

Average emissions Level

Freq	Ant.	Peak Level	PDCF	AV Level	AV Limit	Margin			
(MHz)	Plo.	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)			
4880.0	V	62.17	17.72	44.45	54	9.55			
Note: AV Level= Peak Level – PDCF									







Site no. : 3m Chamber Data no. : 27
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL

Limit : FCC PART 15 PEAK 2.4

Env. / Ins. : 25*C/60% Engineer :Power Feng

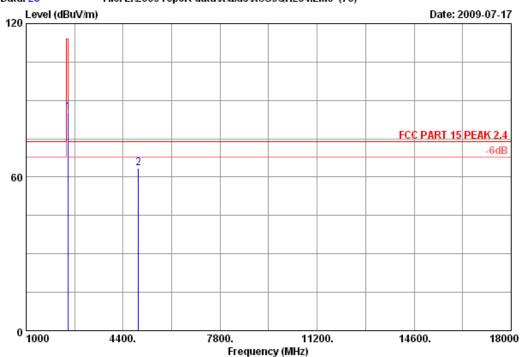
EUT : Wireless Turntable Controller for PS2&PS3

Power : DC 3V Test mode : Tx 2469.2MHz M/N:95837.809

Audix Technology (Shenzhen) Co., Ltd. Report No. ACS-F09160







Site no. : 3m Chamber Data no. : 28

Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL

Limit : FCC PART 15 PEAK 2.4

Env. / Ins. : 25*C/60% Engineer :Power Feng

EUT : Wireless Turntable Controller for PS2&PS3

Power : DC 3V
Test mode : Tx 2469.2MHz

M/N:95837.809

				Amp.		Emissio:				
	-				Reading (dbuv)			_	Remark	
	(1112)	(GD/III)	(ub)	(ab)	(abav)	(abav/m)	(abav/m)			
1	2469.200	28.55	7.72	33.86	82.67	85.08	114.00	28.92	Peak	
2	4938.400	35.19	11.03	33.38	50.68	63.52	74.00	10.48	Peak	

Remarks

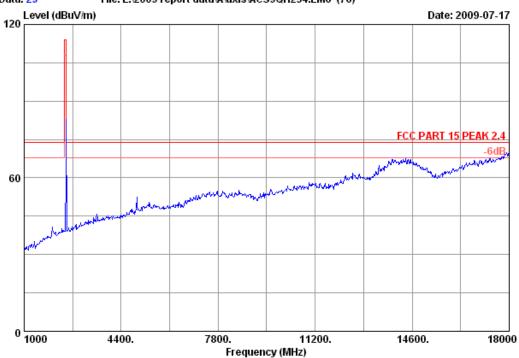
- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

Average emissions Level

Freq	Ant.	Peak Level	PDCF	AV Level	AV Limit	Margin	
(MHz)	Plo.	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
4938.4	V	63.52	17.72	45.80	54	8.20	
Note: AV Level= Peak Level – PDCF							







Site no. : 3m Chamber Data no. : 29

Ant. pol. : HORIZONTAL Dis. / Ant. : 3m 3115(0905)

Limit : FCC PART 15 PEAK 2.4

Env. / Ins. : 25*C/60% Engineer : Power Feng

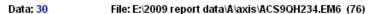
: Wireless Turntable Controller for PS2&PS3

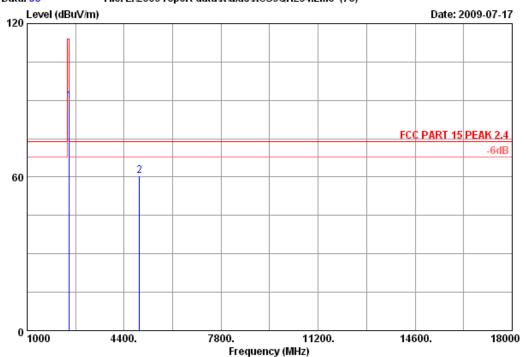
Power : DC 3V

: Tx 2469.2MHz Test mode

M/N:95837.809







Site no. : 3m Chamber Data no. : 30

Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL

Limit : FCC PART 15 PEAK 2.4

Env. / Ins. : 25*C/60% Engineer :Power Feng

EUT : Wireless Turntable Controller for PS2&PS3

Power : DC 3V

Test mode : Tx 2469.2MHz

M/N:95837.809

		Ant.	Cable	Amp.		Emissio:	n		
	-				Reading (dbuv)			_	Remark
_					87.11			24.48	
Z	4938.400	35.19	11.03	33.38	47.69	60.53	74.00	13.47	Peak

Remarks

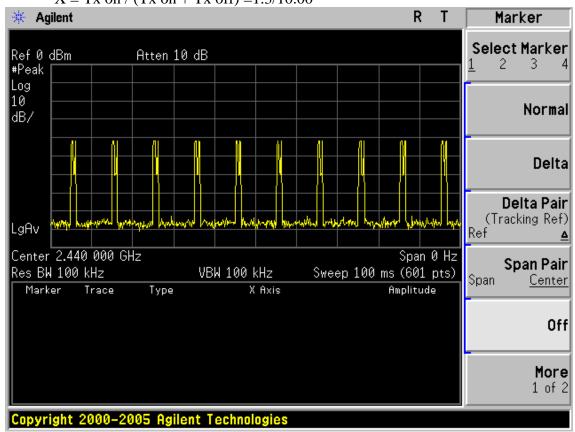
- 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- 2. The emission levels that are 20dB below the official limit are not reported.

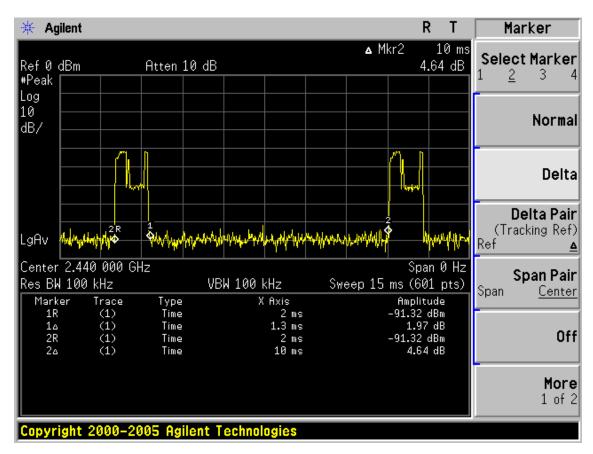
Average emissions Level

	1,01,00 0,000 20,01								
Freq	Ant.	Peak Level	PDCF	AV Level	AV Limit	Margin			
(MHz)	Plo.	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)			
4938.4	Н	60.53	17.72	42.81	54	11.19			
Note: AV Level= Peak Level – PDCF									

4.8. Duty factor

Average level = Peak level - Duty factor Duty factor = $20 \log (1/x) = 17.72$ X = Tx on / (Tx on + Tx off) = 1.3/10.00





5. 20DB BANDWIDTH TEST

5.1. Test Equipment

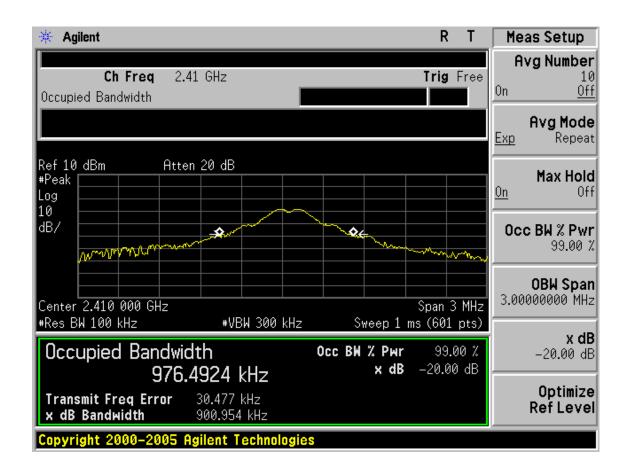
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
						Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,08, 09	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May,08, 09	1 Year
3	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May,08, 09	1Year

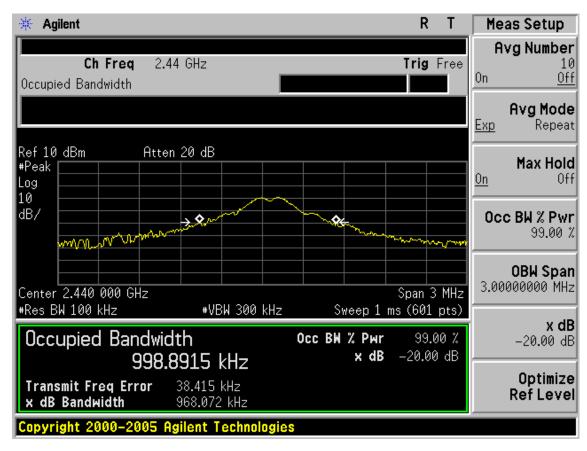
5.2. Limit

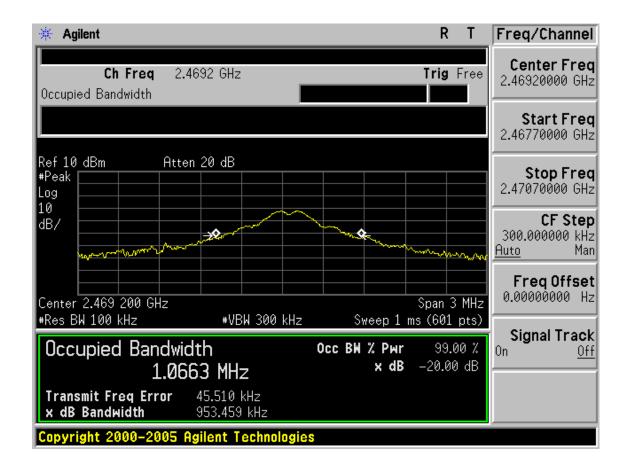
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific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

5.3. Test Results

СН	20dB Bandwidth (kHz)	Limit (kHz)	Conclusion
(Low)	900.954		PASS
(Mid)	968.072		PASS
(High)	953.459		PASS







6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,08, 09	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	May, 27, 08	1.5 Year
3	Amplifier	Agilent	8449B	3008A02495	Nov 24.08	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX 102	28620/2	May,08, 09	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	271471/4	May,08, 09	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX 102	29086/2	May,08, 09	1 Year

6.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.3. 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 upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz, PK detector, Sweep=AUTO

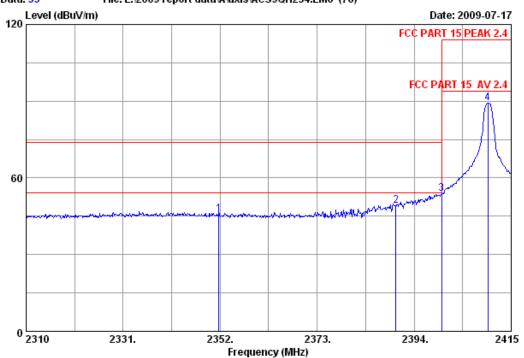
6.4. Test Results

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

The levels PK measured and comply with average limit, so the average levels were deemed to comply with average limit







Site no. : 3m Chamber Data no. : 33

Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL

Limit : FCC PART 15 PEAK 2.4

Env. / Ins. : 25*C/60% Engineer :Power Feng

EUT : Wireless Turntable Controller for PS2&PS3

Power : DC 3V Test mode : Tx 2410MHz

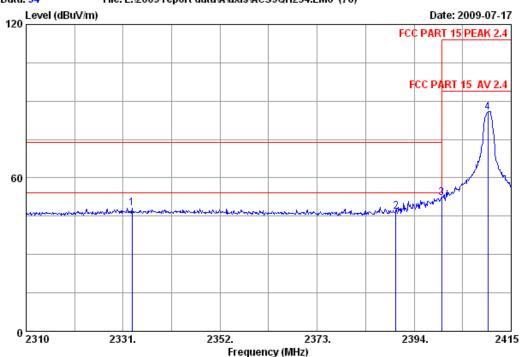
M/N:95837.809

		Ant.	Cable	Amp.		Emissio:	n			
	-				Reading (dbuv)			_	Remark	
1	2351.685	28.41	7.61	33.92	43.59	45.69	74.00	28.31	Peak	
2	2390.000	28.46	7.66	33.90	46.89	49.11	74.00	24.89	Peak	
3	2400.000	28.46	7.66	33.90	51.52	53.74	74.00	20.26	Peak	
4	2410.000	28.48	7.66	33.90	86.89	89.13	114.00	24.87	Peak	

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







Site no. : 3m Chamber Data no. : 34
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL

Limit : FCC PART 15 PEAK 2.4

Env. / Ins. : 25*C/60% Engineer :Power Feng

EUT : Wireless Turntable Controller for PS2&PS3

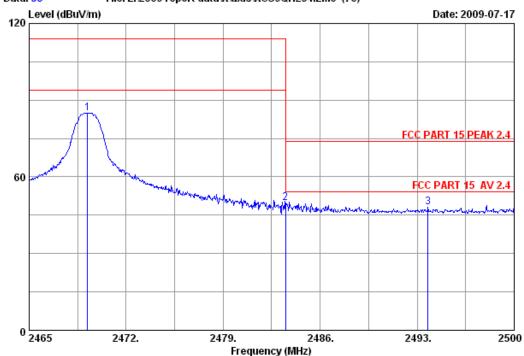
Power : DC 3V Test mode : Tx 2410MHz M/N:95837.809

		Ant.	Cable	Cable Amp. Emission					
	•	Factor (dB/m)			Reading (dbuv)			_	Remark
1	2332.890	28.36	7.61	33.94	46.13	48.16	74.00	25.84	Peak
2	2390.000	28.46	7.66	33.90	44.51	46.73	74.00	27.27	Peak
3	2400.000	28.46	7.66	33.90	50.03	52.25	74.00	21.75	Peak
4	2410.000	28.48	7.66	33.90	83.34	85.58	114.00	28.42	Peak

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







Site no. : 3m Chamber Data no. : 35
Dis. / Ant. : 3m 3115(0905) Ant. pol. : VERTICAL

Limit : FCC PART 15 PEAK 2.4

Env. / Ins. : 25*C/60% Engineer :Power Feng

EUT : Wireless Turntable Controller for PS2&PS3

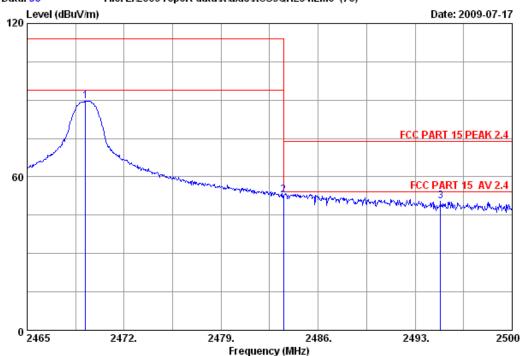
Power : DC 3V Test mode : Tx 2469.2MHz M/N:95837.809

		Ant.	Cable	Amp.					
	-				Reading (dbuv)			_	Remark
1	2469.200	28.55	7.72	33.86	82.63	85.04	114.00	28.96	Peak
2	2483.500	28.58	7.77	33.86	47.44	49.93	74.00	24.07	Peak
3	2493.770	28.60	7.77	33.85	45.66	48.18	74.00	25.82	Peak

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







Site no. : 3m Chamber Data no. : 36

Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL

Limit : FCC PART 15 PEAK 2.4

Env. / Ins. : 25*C/60% Engineer :Power Feng

EUT : Wireless Turntable Controller for PS2&PS3

Power : DC 3V Test mode : Tx 2469.2MHz

M/N:95837.809

		Ant.	Cable	Amp.	Emission					
	-				Reading (dbuv)			_	Remark	
										-
1	2469.200	28.55	7.72	33.86	87.20	89.61	114.00	24.39	Peak	
2	2483.500	28.58	7.77	33.86	50.27	52.76	74.00	21.24	Peak	
3	2494.820	28.60	7.77	33.85	47.81	50.33	74.00	23.67	Peak	

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

7. DEVIATION TO TEST SPECIFICATIONS

[NONE]