

APPLICATION FOR CERTIFICATION

On Behalf of

RedOctane, Inc.

PS3/Les Paul Wireless

Model Number: 95121.806

Prepared for : RedOctane, Inc.
955 Benecia Avenue Sunnyvale, CA 94085, 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-F07433
Date of Test : Aug.31~Sep.14, 2007
Date of Report : Sep.28, 2007

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TEST REPORT CERTIFICATION

Applicant : RedOctane, Inc.
 Manufacturer : Berway Technology Ltd.
 EUT Description : PS3/Les Paul Wireless
 (A) MODEL NO. : 95121.806
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 5V From PS3

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 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.31~Sep.14, 2007

Prepared by : YoYo Wang
YoYo Wang / Assistant

Reviewer : Iceman Hu
Iceman Hu / Supervisor



Approved & Authorized Signer : Ken Lu
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.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15C: 15.209 ANSI C63.4-2003	PASS
Radiated Emission Test	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 : PS3/Les Paul Wireless

Model Number : 95121.806

Operation frequency : 2410MHz~2470MHz

Modulation : MSK

Power : DC 5V From PS3

Applicant : RedOctane, Inc.
955 Benecia Avenue Sunnyvale, CA 94085, United States

Manufacturer : Berway Technology Ltd.
Unit 1801-02, 18/F., No.88 Kwai Cheong Road, Kwai Chung, N.T., H.K.

Controller : Manufacture: Berway, M/N: 95121.805

Date of Test : Aug.31~Sep.14, 2007

Date of Receipt : Aug.30, 2007

Sample Type : Series production

2.2. Tested Supporting System Details

2.2.1. TV

EMC CODE : ACS-EMC-TV01T

M/N : 1419A

Manufacturer : TCL

Power cord : Unshielded, Undetachabled, 1.8m

FCC ID : By Verification

2.2.2. PS3

M/N : CECHC04

Manufacturer : SONY

2.3. Test Facility

Site Description

- 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
Feb. 02, 2004
- Accredited by NVLAP, USA
NVLAP Code: 200372-0
Apr.01, 2006

2.4. Measurement Uncertainty

No.	Item	Uncertainty
1.	Uncertainty for Conducted Emission Test	1.22dB
2.	Uncertainty for Radiated Emission Test<1GHz	4.62dB
3.	Uncertainty for Radiated Emission Test>1GHz	4.79dB
4.	Uncertainty for Frequency measure	0.42×10^{-6}

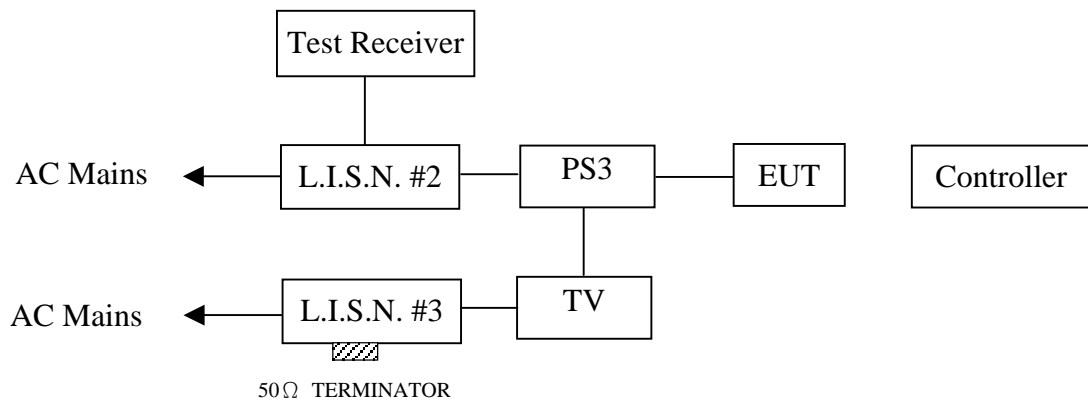
3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	May 11, 07	1 Year
2.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	May 11, 07	1 Year
3.	L.I.S.N.#3	EMCO	3825/2	9006-1660	May 11, 07	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May 11, 07	1 Year
5.	RF Cable	MIYAZAKI	5D-2W	LISN Cable 1#	Aug.11, 07	1/2 Year
6.	Coaxial Switch	Anritsu	MP59B	M55367	Aug.11, 07	1/2 Year
7.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100340	Aug.11, 07	1/2 Year

3.2. Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and simulators



(EUT: PS3/Les Paul Wireless)

3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level 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. PS3/Les Paul Wireless (EUT)

Model Number : 95121.806

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 Via PS3 Power connected to the power mains through a line impedance stabilization network (L.I.S.N. #2). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#3). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were 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.

EUT: PS3/Les Paul Wireless Model No. : 95121.806

Test Date: Sep.12, 2007 Temperature: 23°C Humidity: 54%

The details of test modes are as follows :

No.	Test Mode	Reference Test Data No.	
		VA	VB
1.	Tx Mode	#3	#4

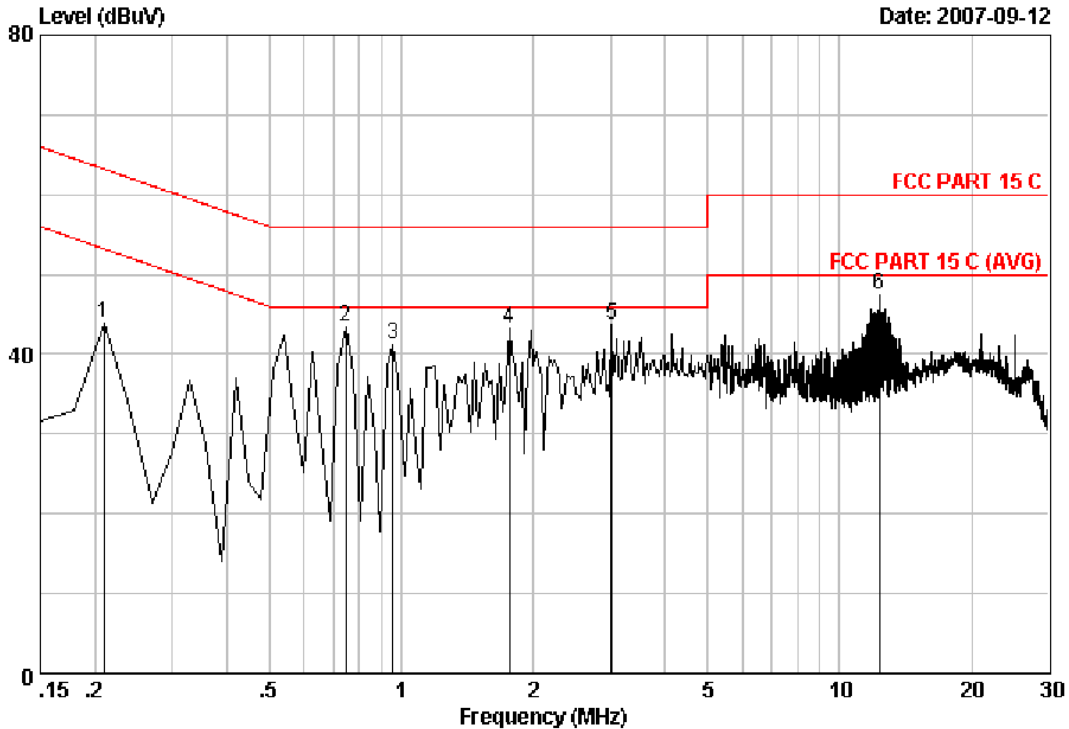


No.6 ke Feng Road ,Block 52,
 Shenzhen Science & Industry Park
 Nantou, Shenzhen, Guangdong, China
 Tel:+86-755-26639495-7
 Fax:+86-755-26632877
 Postcode:518057

Data: 3

File: D:\DATA\2007 Report\RedOctane\ACS70H149.EMI (6)

Date: 2007-09-12



Site no. : Audix 1# Conduction Data no. : 3
 Dis. / Ant. : -- KNW407 VA (1#) LISN Phase :
 Limit : FCC PART 15 C
 Env. / Ins. : Temp:23' Humi:54% ESHS10 Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx Mode

	LISN.		Cable		Emission			
Freq. (MHz)	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark	
1	0.21	0.15	10.15	33.68	43.98	63.22	19.24 QP	
2	0.75	0.05	10.14	33.23	43.42	56.00	12.58 QP	
3	0.96	0.04	10.15	31.06	41.25	56.00	14.75 QP	
4	1.76	0.05	10.15	33.02	43.22	56.00	12.78 QP	
5	3.02	0.08	10.17	33.39	43.64	56.00	12.36 QP	
6	12.30	0.24	10.27	36.87	47.38	60.00	12.62 QP	

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

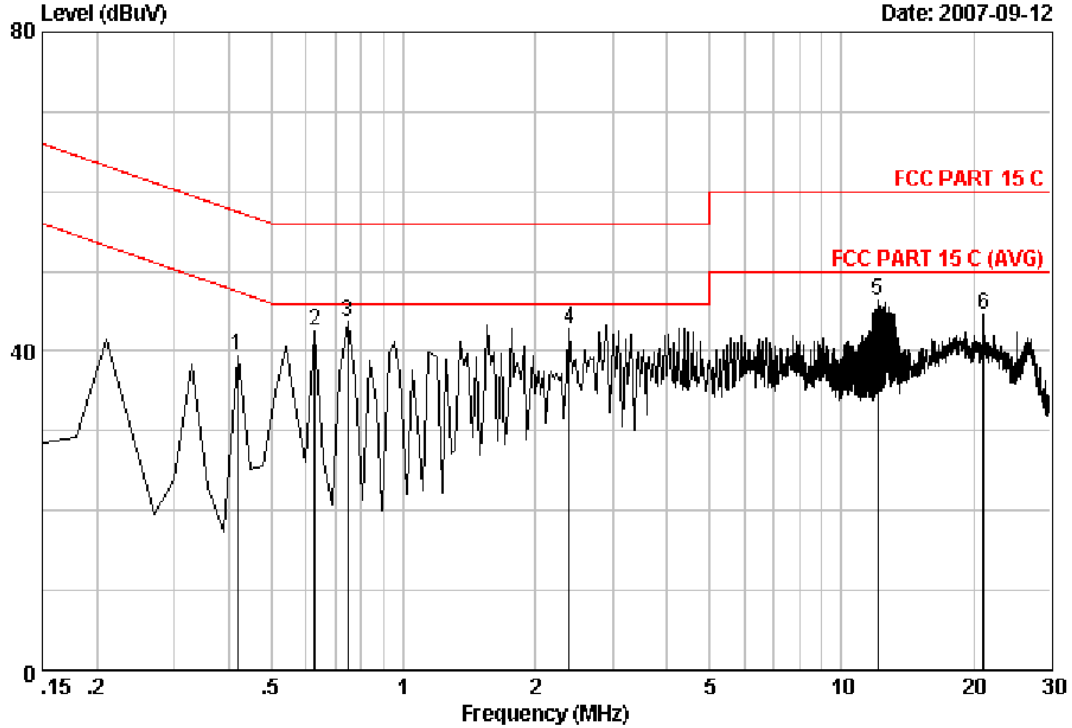


No.6 ke Feng Road ,Block 52,
Shenzhen Science & Industry Park
Nantou, Shenzhen, Guangdong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 4

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Date: 2007-09-12



Site no. : Audix 1# Conduction Data no. : 4
 Dis. / Ant. : -- KNW407 VB (1#) LISN Phase :
 Limit : FCC PART 15 C
 Env. / Ins. : Temp:23' Humi:54% ESHS10 Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx Mode

	LISN.		Cable		Emission			
Freq. (MHz)	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark	
1	0.42	0.08	10.14	29.14	39.36	57.47	18.11 QP	
2	0.63	0.05	10.14	32.35	42.54	56.00	13.46 QP	
3	0.75	0.05	10.14	33.43	43.62	56.00	12.38 QP	
4	2.39	0.06	10.16	32.63	42.85	56.00	13.15 QP	
5	12.09	0.23	10.26	35.91	46.40	60.00	13.60 QP	
6	21.10	0.48	10.38	33.75	44.61	60.00	15.39 QP	

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. If the average limit is met when using 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

The following test equipments are used during the radiated emission test :

4.1.1. For Anechoic Chamber

Frequency rang: 30~1000MHz

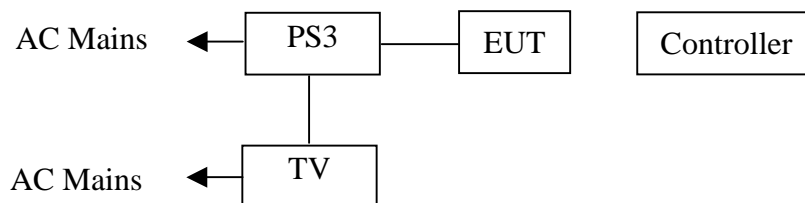
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Spectrum	Agilent	E7403A	MY42000106	May 11, 07	1 Year
2.	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	May 11, 07	1 Year
3.	Amplifier	HP	8447D	2944A07794	Sep.11, 07	1/2 Year
4.	Bilog Antenna	Schaffner	CBL6111C	2598	Feb.22, 07	1 Year
5.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.1	July. 16, 07	1/2 Year
6.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.2	July. 16, 07	1/2 Year
7.	RF Cable	FUJIKURAw	RG-55/U	3# Chamber No.3	July. 16, 07	1/2 Year
8.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.4	July. 16, 07	1/2 Year
9.	Coaxial Switch	Anritsu	MP59B	M73989	July. 16, 07	1/2 Year

Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 11, 07	1 Year
2.	Amp	HP	8449B	3008A00863	May 11, 07	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 11, 07	1 Year
5.	Antenna	ETS	3116	00060088	May. 28, 07	1 Year

4.2. Block Diagram of Test Setup

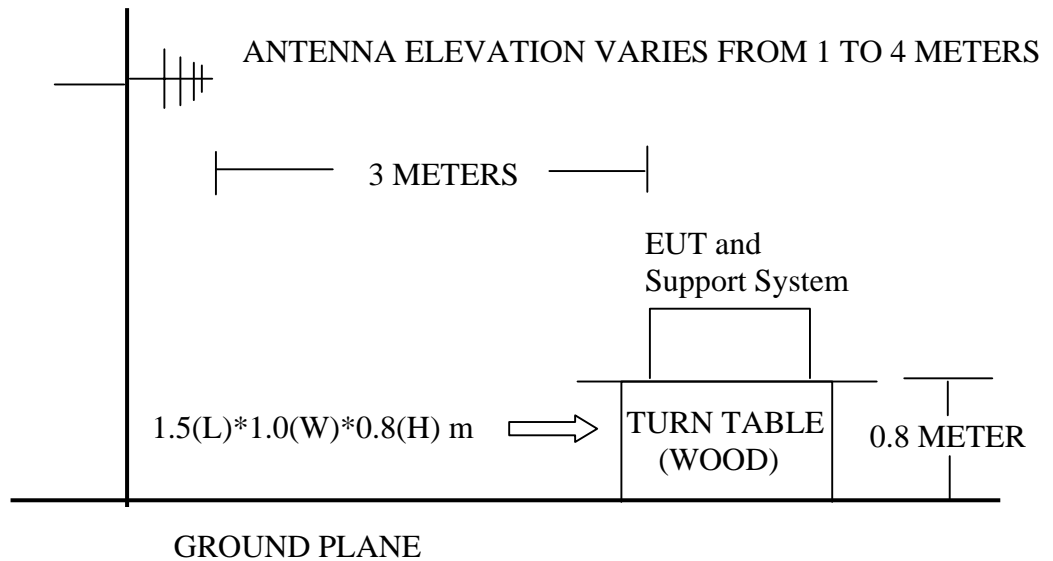
4.2.1. Block Diagram of connection between EUT and simulators



(EUT: PS3/Les Paul Wireless)

4.2.2. Anechoic Chamber Setup Diagram

ANTENNA TOWER



4.3. Radiated Emission Limit Standard: FCC 15.249

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Local Oscillator:	3	114.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 94.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	
Above 1000	3	Other: 74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$
 - (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.

4.4. 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. PS3/Les Paul Wireless (EUT)

Model Number : 95121.806
 Serial Number : N/A

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

4.5. Operating Condition of EUT

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

4.5.2. Let the EUT work in test modes (TX Mode) and test 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 ESVS20) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW 10Hz VBW for average emission above 1GHz

The frequency range from 30MHz to 1000MHz and above 1GHz. are checked.

The test modes (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on Section 4.7.

(Note: This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position

For intentional radiators, measurements of the variation of the output power or the radiated fundamental frequency emission, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage and for this EUT, we tested the fundamental emission with supply voltage at 102V and 138V, but the worst case emission was found with normal power supply 120V and reported.)

4.7. Radiated Emission Test Results

PASS.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 1MHz RBW above 1GHz,

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 1MHz VBW above 1GHz, A average detector with 10Hz VBW above 1GHz

All the emissions except fundamental from 18GHz~25GHz are at least 20dB below the limit, and do not record.

EUT: PS3/Les Paul Wireless Model No. : 95121.806

Test Date: Aug.31~Sep.14, 2007 Temperature: 23°C Humidity: 54%

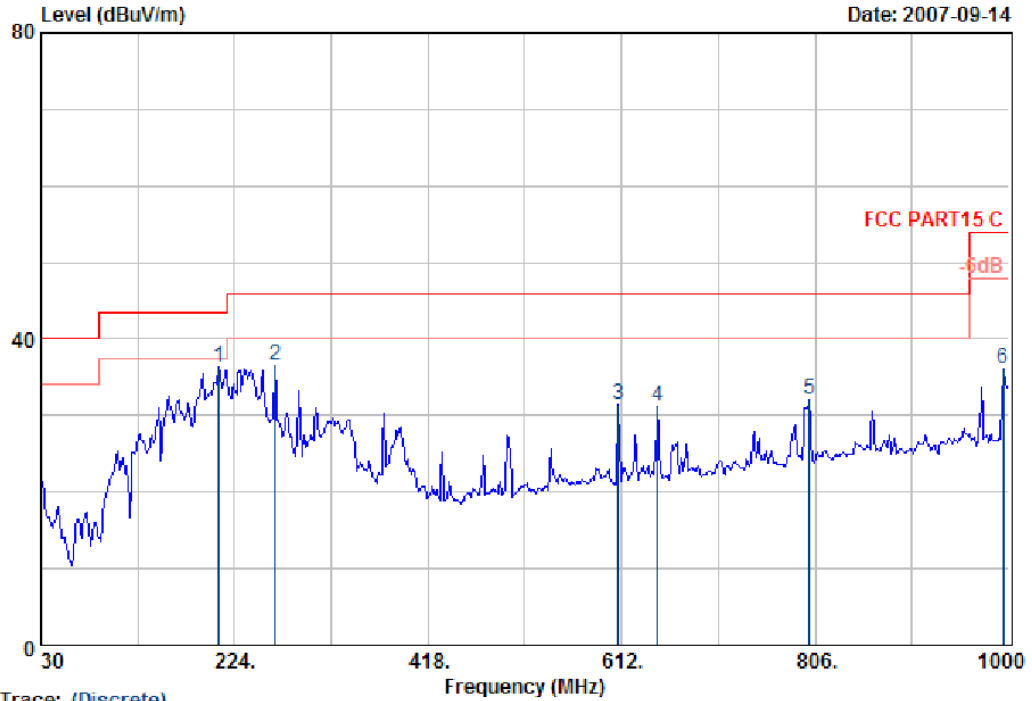
The details of test modes are as follows :

Test Mode	Frequency (MHz)	Test Mode	Reference Test Data No.	
			Horizontal	Vertical
1.	30~1000	Tx Mode	#2	#1
2.	1000~18000	Tx CH Low: 2410MHz	#21, #22	#19, #20
3.		Tx CH Middle: 2440MHz	#23, #24	#25, #26
4.		Tx CH High: 2470MHz	#29, #30	#27, #28
5.	18000~25000	Tx CH Low: 2410MHz	#32	#31
6.		Tx CH Middle: 2440MHz	#33	#34
7.		Tx CH High: 2470MHz	#36	#35



No.6 Ke Feng Road,B1:ck 52,
 ShenZhen Science & Industry Park
 Noutou, ShenZhen, Guangdong, China
 Tel:+86-755-26639495-7
 Fax:+86-755-26632877
 Postcode:518057

Data: 2 File: D:\2007 Report\Red\Octane\3m data\ACS7QH149.EMI (4)



Trace: (Discrete)
 Site no. : 3# Chamber Radiation Data no. : 2
 Dis. / Ant. : 3m 2598 Ant. pol. : HORIZONTAL
 Limit : FCC PART15 C
 Env. / Ins. : 24°C/56% ESVS20 Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx Mode

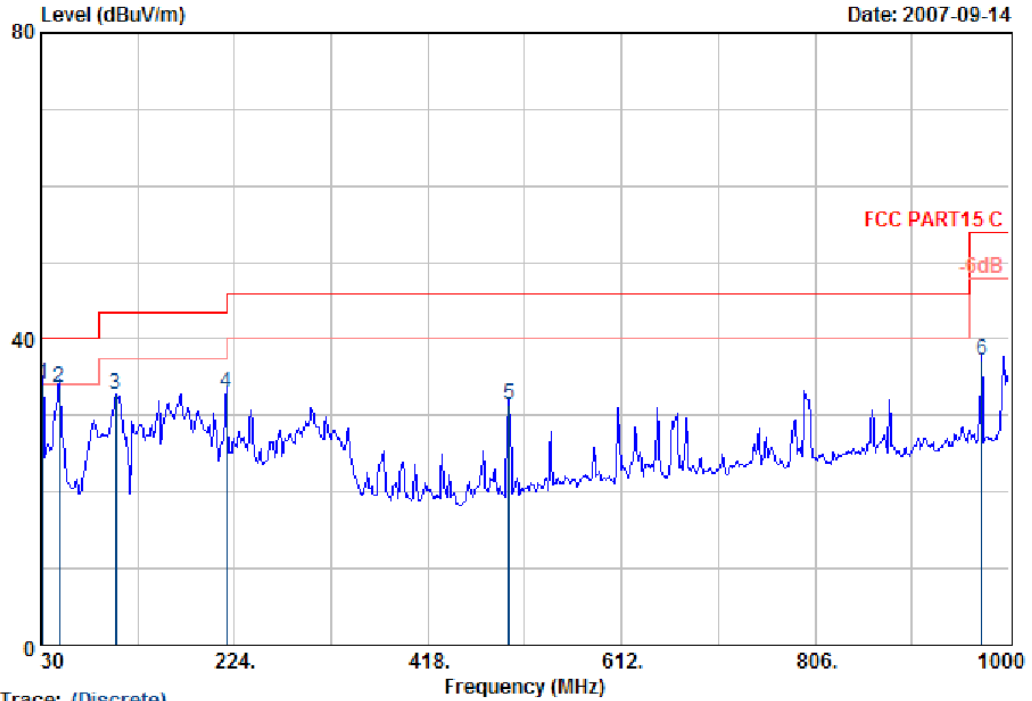
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	208.48	10.37	1.39	24.58	36.34	46.00	7.16	QP
2	264.74	14.10	1.57	20.98	36.65	46.00	9.35	QP
3	609.09	19.88	2.04	9.60	31.52	46.00	14.48	QP
4	647.89	20.24	2.20	8.86	31.30	46.00	14.70	QP
5	800.18	21.80	2.61	7.60	32.01	46.00	13.99	QP
6	994.18	24.12	2.77	9.22	36.11	54.00	17.89	QP

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



No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

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Trace: (Discrete)
 Site no. : 3# Chamber Radiation Data no. : 1
 Dis. / Ant. : 3m 2598 Ant. pol. : VERTICAL
 Limit : FCC PART15 C
 Env. / Ins. : 24°C/56% ESVS20 Engineer : Jamy
 EUT : PSS/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx Mode

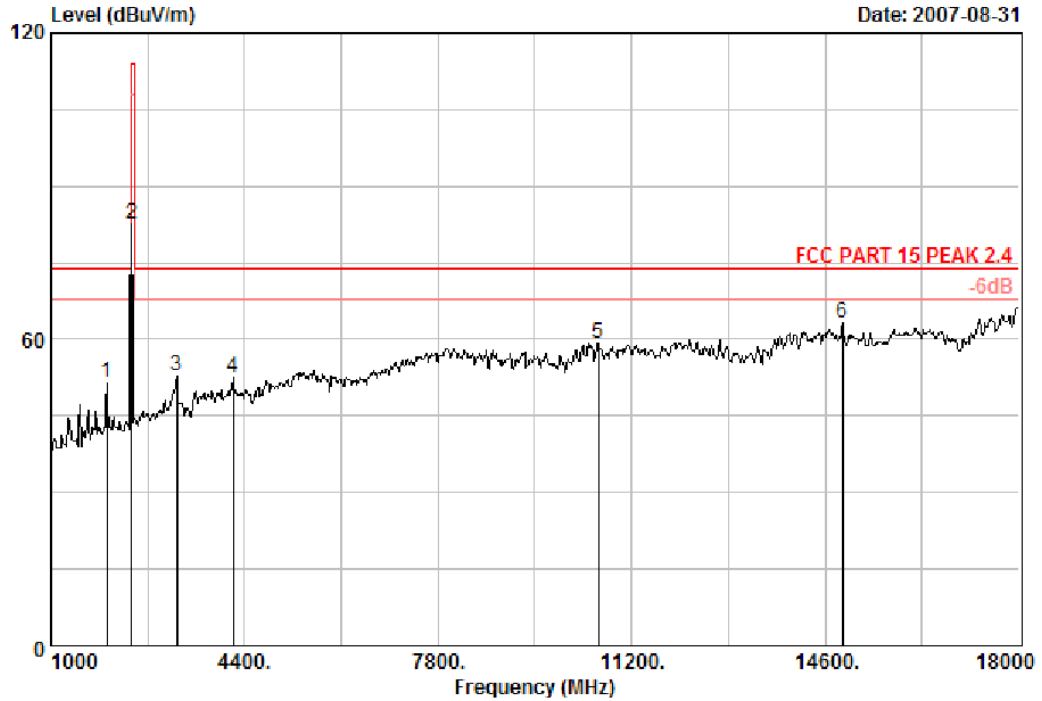
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	18.64	0.70	14.85	34.19	40.00	5.81	QP
2	48.43	9.73	0.85	23.16	33.74	40.00	6.26	QP
3	104.69	11.10	1.11	20.47	32.68	43.50	10.82	QP
4	216.24	10.06	1.39	21.48	32.93	46.00	13.07	QP
5	499.48	18.10	2.02	11.24	31.36	46.00	14.64	QP
6	972.84	24.00	2.87	10.30	37.17	54.00	16.83	QP

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



No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, Guangdong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 21 File: D:\2007 Report\RedOctane\ACS7QH149.EMI (36)



Site no. : RF Chamber Data no. : 21
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx CH Low
 Memo : X position

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Remark
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	1986.00	27.97	6.34	35.32	52.39	51.38	74.00	22.62	Peak
2	2410.00	29.03	5.70	35.18	82.88	82.43	114.00	31.57	Peak
3	3210.00	31.57	7.35	34.94	48.68	52.66	74.00	21.34	Peak
4	4196.00	33.55	8.50	34.65	44.93	52.33	74.00	21.67	Peak
5	10622.00	39.08	13.16	36.26	43.24	59.22	74.00	14.78	Peak
6	14906.00	41.04	14.65	35.25	42.58	63.02	74.00	10.98	Peak

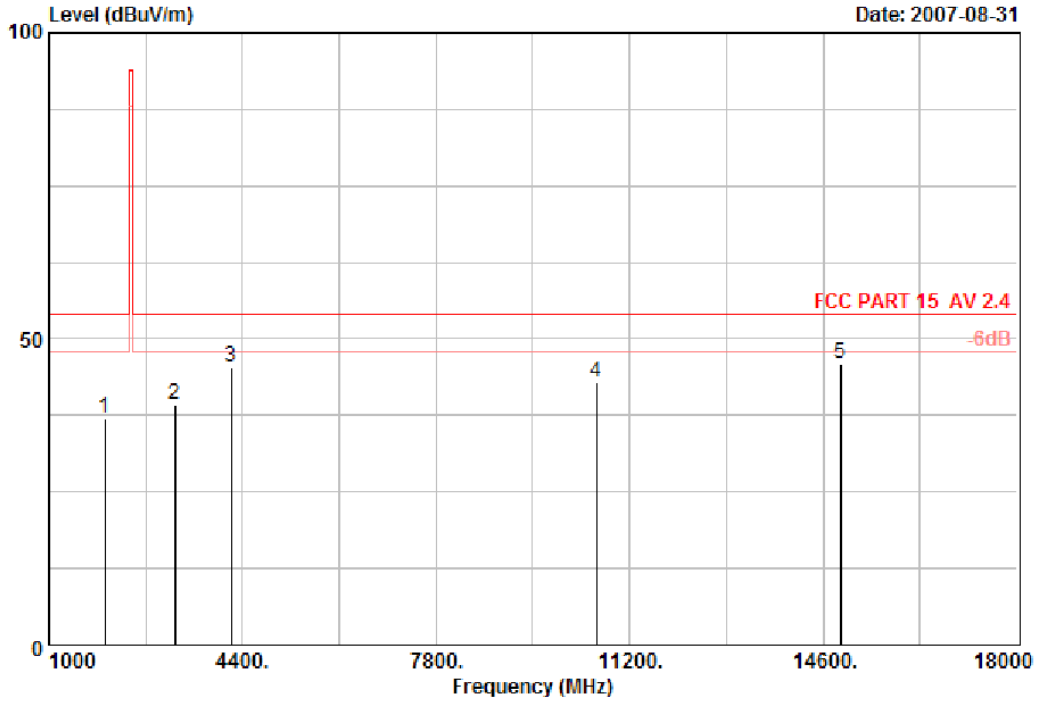
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 22 File: D:\2007 Report\RedOctane\ACS7QH149.EMI (36)

Date: 2007-08-31



Site no. : RF Chamber Data no. : 22
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx CH Low
 Memo : X position

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission			Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)		
1	27.97	6.34	35.32	38.14	37.13	54.00	16.87	Average
2	31.57	7.35	34.94	35.18	39.16	54.00	14.84	Average
3	33.55	8.50	34.65	37.93	45.33	54.00	8.67	Average
4	39.08	13.16	36.26	26.96	42.94	54.00	11.06	Average
5	41.04	14.65	35.25	25.58	46.02	54.00	7.98	Average

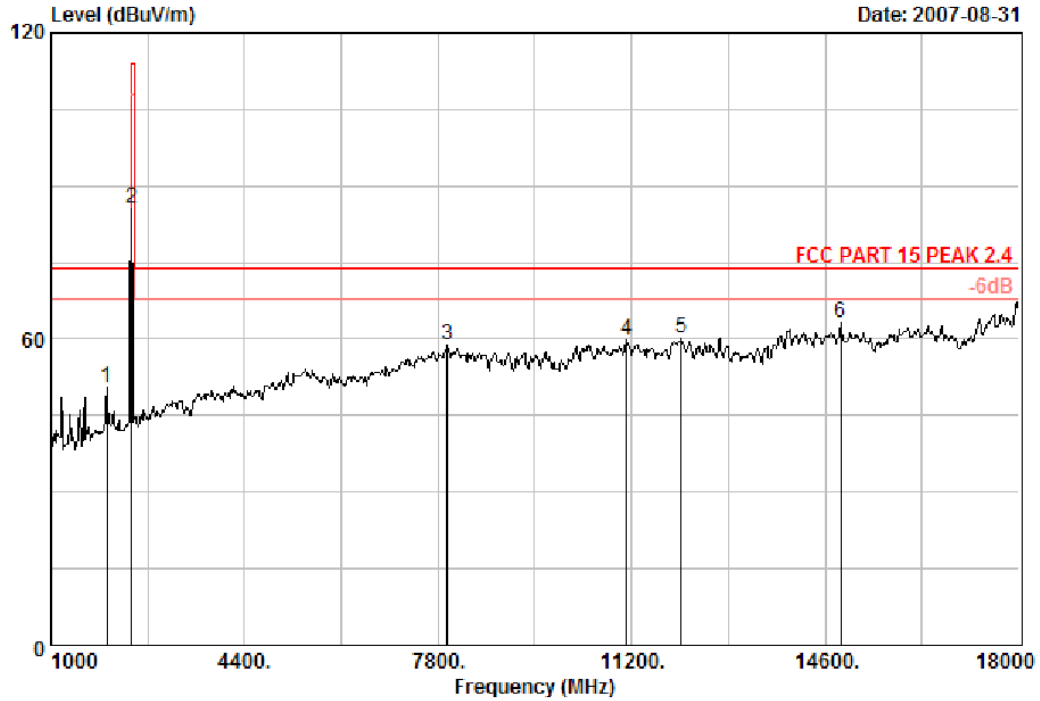
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Fundamental Emission Average Result					
Freq(MHz)	Peak Level (dBμV/m)	PDCF(dBμV/m) (see Section 5)	Average Level (dBμV/m)	Limit(dBμV/m) (average)	Conclusion
2410	82.43	-24.44	57.99	94	PASS



No.6 Ke Feng Road,Block 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 19 File: D:\2007 Report\Red\Octane\ACS7QH149.EMI (36)



Site no. : RF Chamber Data no. : 19
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx CH Low
 Memo : X position

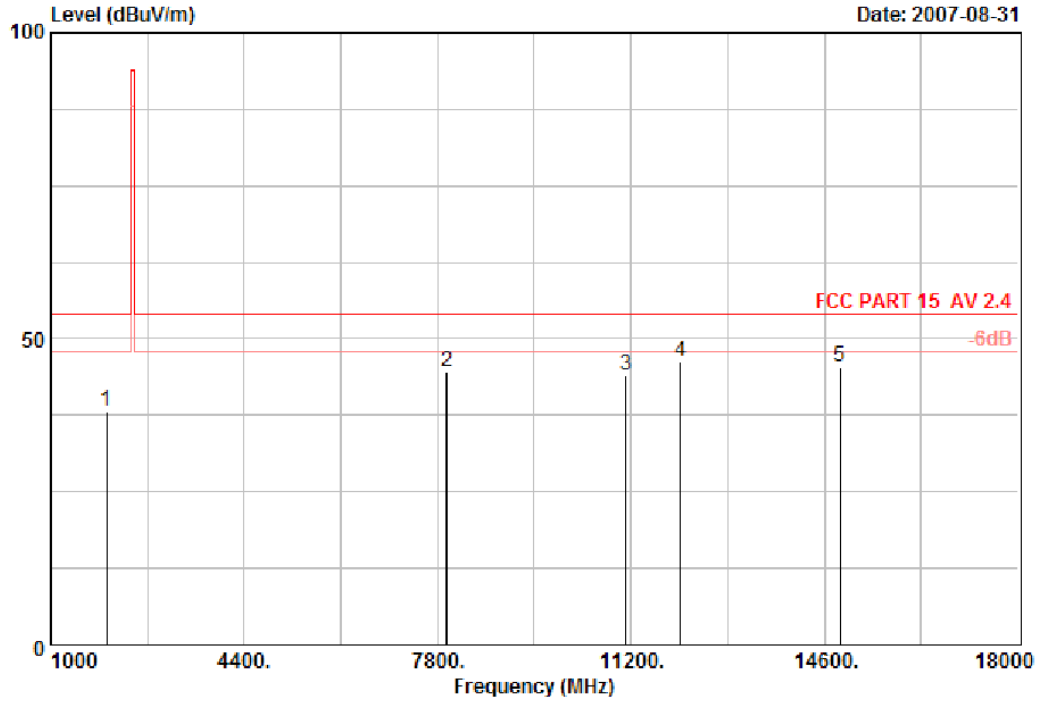
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
					Reading (dBuV)	Level (dBuV/m)			
1	1986.00	27.97	6.34	35.32	51.61	50.60	74.00	23.40	Peak
2	2410.00	29.03	5.70	35.18	86.12	85.67	114.00	28.33	Peak
3	7970.00	37.99	12.50	34.59	42.98	58.88	74.00	15.12	Peak
4	11115.00	38.99	13.98	36.31	43.10	59.76	74.00	14.24	Peak
5	12067.00	39.54	13.60	36.37	43.40	60.17	74.00	13.83	Peak
6	14872.00	41.15	14.58	35.26	42.85	63.32	74.00	10.68	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.



No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 20 File: D:\2007 Report\RedOctane\ACS7QH149.EMI (36)



Site no. : RF Chamber Data no. : 20
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx CH Low
 Memo : X position

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1986.00	27.97	6.34	35.32	39.26	38.25	54.00	15.75	Average
2	7970.00	37.99	12.50	34.59	28.58	44.48	54.00	9.52	Average
3	11115.00	38.99	13.98	36.31	27.28	43.94	54.00	10.06	Average
4	12067.00	39.54	13.60	36.37	29.40	46.17	54.00	7.83	Average
5	14872.00	41.15	14.58	35.26	24.85	45.32	54.00	8.68	Average

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.

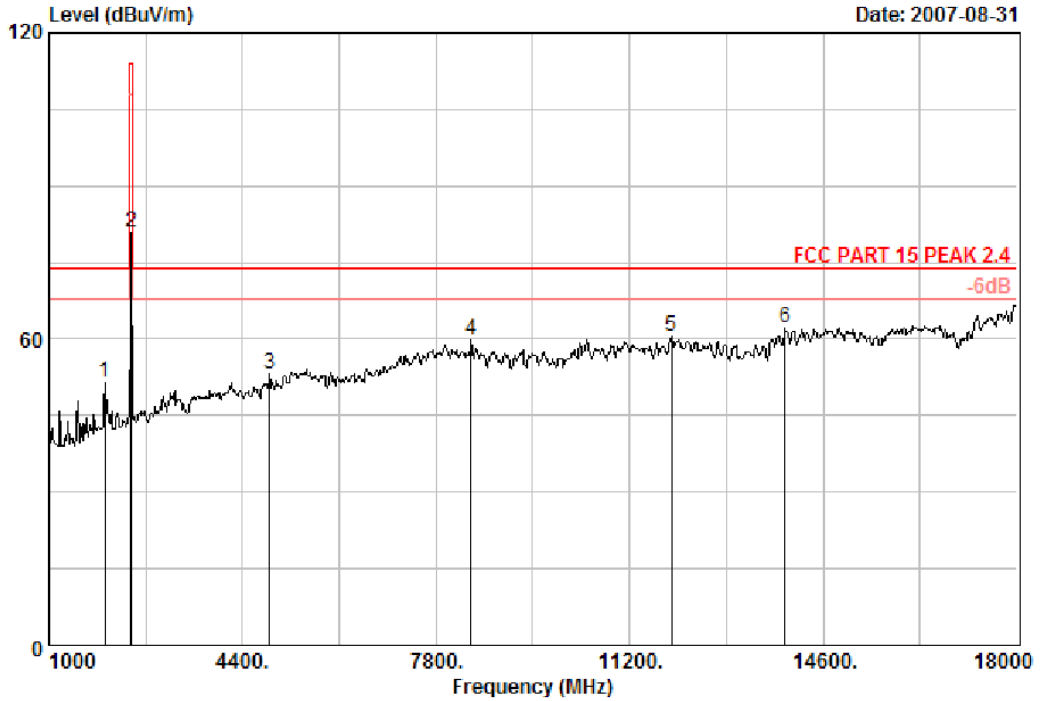
Fundamental Emission Average Result					
Freq(MHz)	Peak Level (dBμV/m)	PDCF(dBμV/m) (see Section 5)	Average Level (dBμV/m)	Limit(dBμV/m) (average)	Conclusion
2410	85.67	-24.44	61.23	94	PASS



No.6 Ke Feng Road,B1:ck 52,
 ShenZhen Science & Industry Park
 Noutou, ShenZhen, GuangDong, China
 Tel:+86-755-26639495-7
 Fax:+86-755-26632877
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Data: 23 File: D:\2007 Report\Red\Octane\ACS7QH149.EMI (36)

Date: 2007-08-31



Site no. : RF Chamber Data no. : 23
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx CH Middle
 Memo : X position

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Amp		Emission				Remark
			Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	1986.00	27.97	6.34	35.32	52.58	51.57	74.00	22.43	Peak
2	2440.00	29.11	5.81	35.17	80.99	80.74	114.00	33.26	Peak
3	4876.00	34.16	9.17	34.48	44.39	53.24	74.00	20.76	Peak
4	8412.00	38.50	11.99	34.92	44.12	59.69	74.00	14.31	Peak
5	11931.00	39.49	13.56	36.39	43.77	60.43	74.00	13.57	Peak
6	13937.00	41.82	14.62	35.73	41.38	62.09	74.00	11.91	Peak

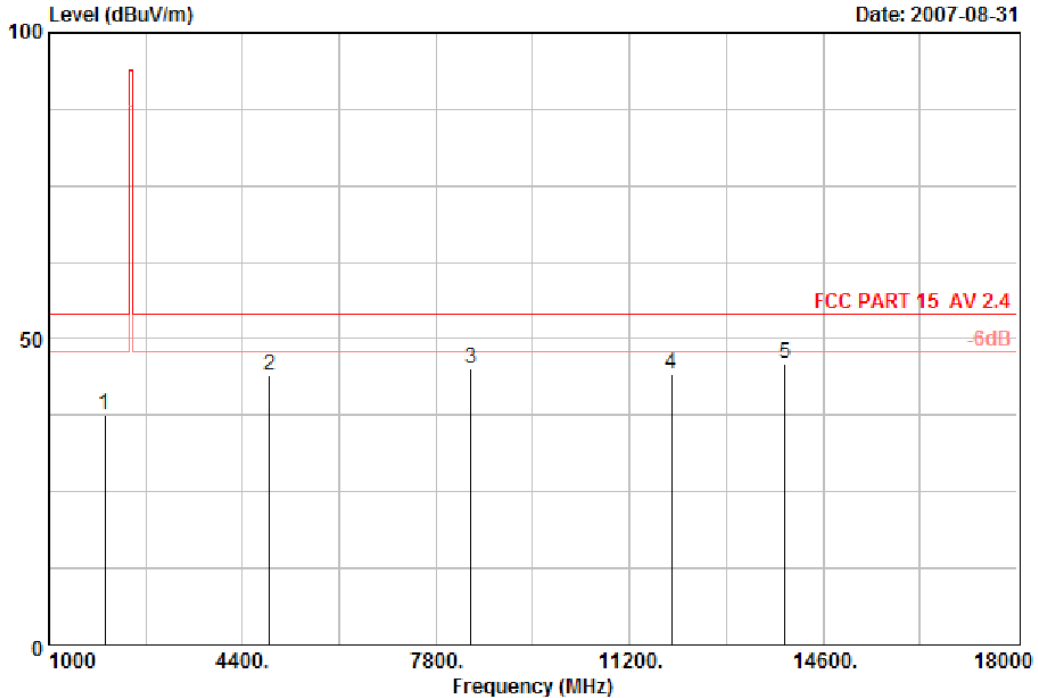
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

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Date: 2007-08-31



Site no. : RF Chamber Data no. : 24
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx CH Middle
 Memo : X position

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1986.00	27.97	6.34	35.32	38.58	37.57	54.00	16.43	Average
2	4876.00	34.16	9.17	34.48	35.13	43.98	54.00	10.02	Average
3	8412.00	38.50	11.99	34.92	29.69	45.26	54.00	8.74	Average
4	11931.00	39.49	13.56	36.39	27.65	44.31	54.00	9.69	Average
5	13937.00	41.82	14.62	35.73	25.30	46.01	54.00	7.99	Average

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.

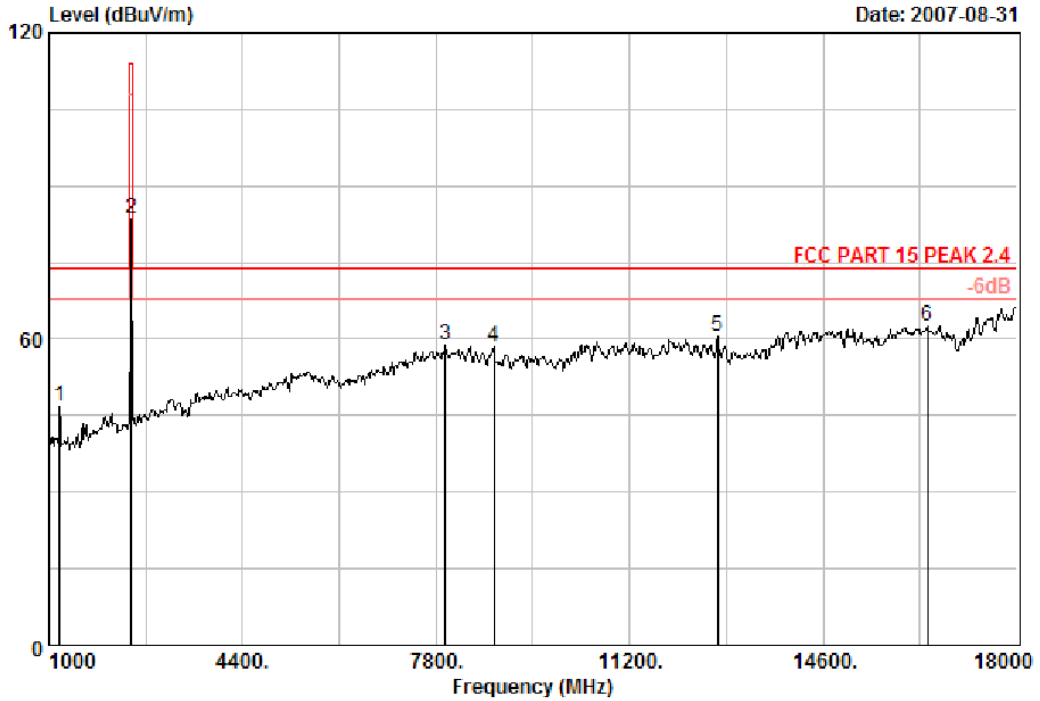
Fundamental Emission Average Result					
Freq(MHz)	Peak Level (dBμV/m)	PDCF(dBμV/m) (see Section 5)	Average Level (dBμV/m)	Limit(dBμV/m) (average)	Conclusion
2440	80.74	-24.44	56.30	94	PASS



No.6 Ke Feng Road,B1:ck 52,
 ShenZhen Science & Industry Park
 Noutou, ShenZhen, GuangDong, China
 Tel:+86-755-26639495-7
 Fax:+86-755-26632877
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Date: 2007-08-31



Site no. : RF Chamber Data no. : 25
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx CH Middle
 Memo : X position

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Amp		Emission			Margin (dB)	Remark
			Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)		
1	1187.00	24.77	4.69	36.04	53.44	46.86	74.00	27.14	Peak
2	2440.00	29.11	5.81	35.17	83.84	83.59	114.00	30.41	Peak
3	7970.00	37.99	12.50	34.59	42.80	58.70	74.00	15.30	Peak
4	8820.00	38.69	11.04	35.26	43.89	58.36	74.00	15.64	Peak
5	12747.00	39.54	13.59	36.14	43.37	60.36	74.00	13.64	Peak
6	16436.00	39.55	15.87	34.76	41.96	62.62	74.00	11.38	Peak

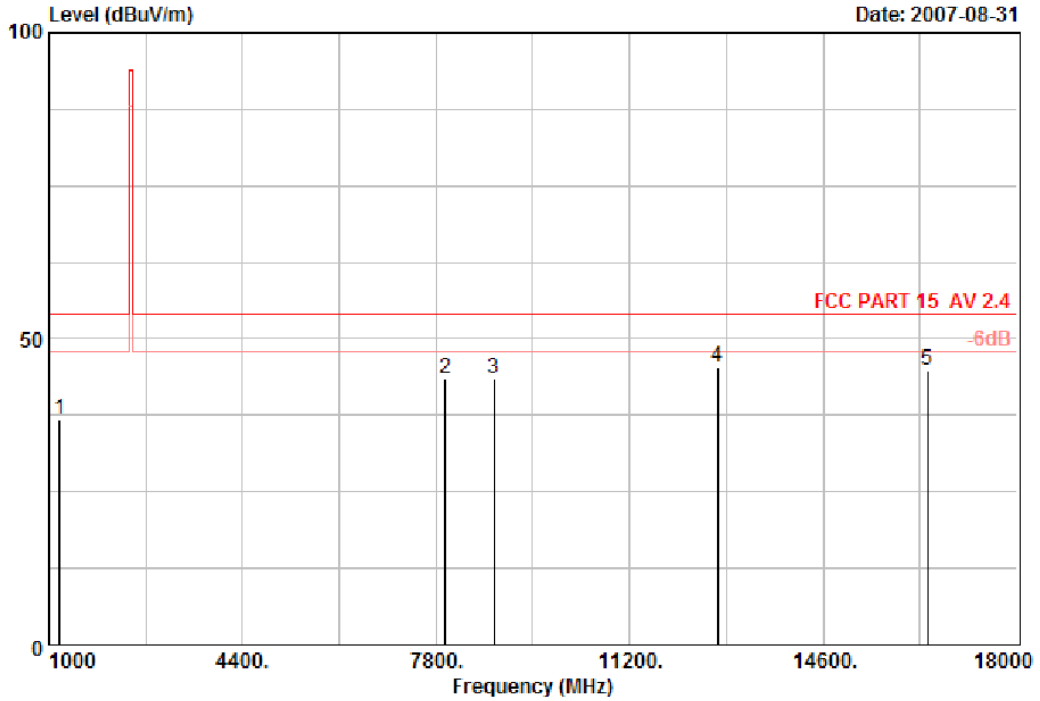
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Site no. : RF Chamber Data no. : 26
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx CH Middle
 Memo : X position

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1187.00	24.77	4.69	36.04	43.44	36.86	54.00	17.14	Average
2	7970.00	37.99	12.50	34.59	27.66	43.56	54.00	10.44	Average
3	8820.00	38.69	11.04	35.26	28.89	43.36	54.00	10.64	Average
4	12747.00	39.54	13.59	36.14	28.29	45.28	54.00	8.72	Average
5	16436.00	39.55	15.87	34.76	24.29	44.95	54.00	9.05	Average

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.

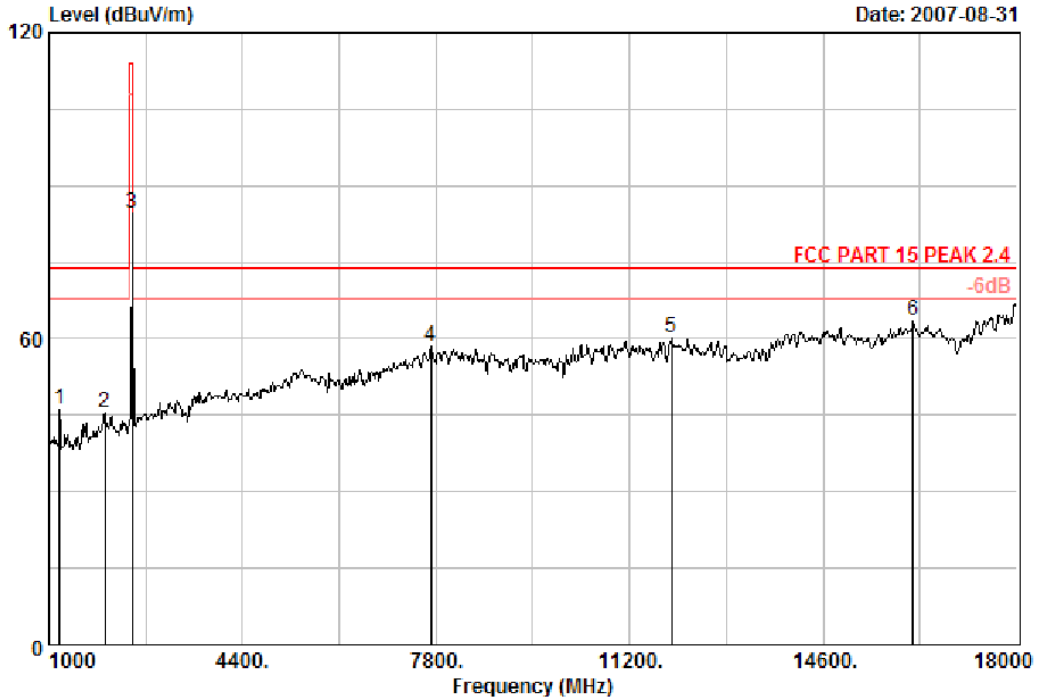
Fundamental Emission Average Result					
Freq(MHz)	Peak Level (dBμV/m)	PDCF(dBμV/m) (see Section 5)	Average Level (dBμV/m)	Limit(dBμV/m) (average)	Conclusion
2440	83.59	-24.44	59.15	94	PASS



No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Date: 2007-08-31



Site no. : RF Chamber Data no. : 29
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx CH High
 Memo : X position

Freq. (MHz)	Ant. Factor (dB/m)	Cable Amp		Emission			Limits (dBuV/m)	Margin (dB)	Remark
		Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Level (dBuV/m)			
1	24.77	4.69	36.04	52.83	46.25	74.00	27.75	Peak	
2	27.97	6.34	35.32	46.46	45.45	74.00	28.55	Peak	
3	29.15	5.87	35.17	84.79	84.64	114.00	29.36	Peak	
4	37.89	12.02	34.54	42.97	58.34	74.00	15.66	Peak	
5	39.49	13.56	36.39	43.47	60.13	74.00	13.87	Peak	
6	39.25	15.71	34.73	43.16	63.39	74.00	10.61	Peak	

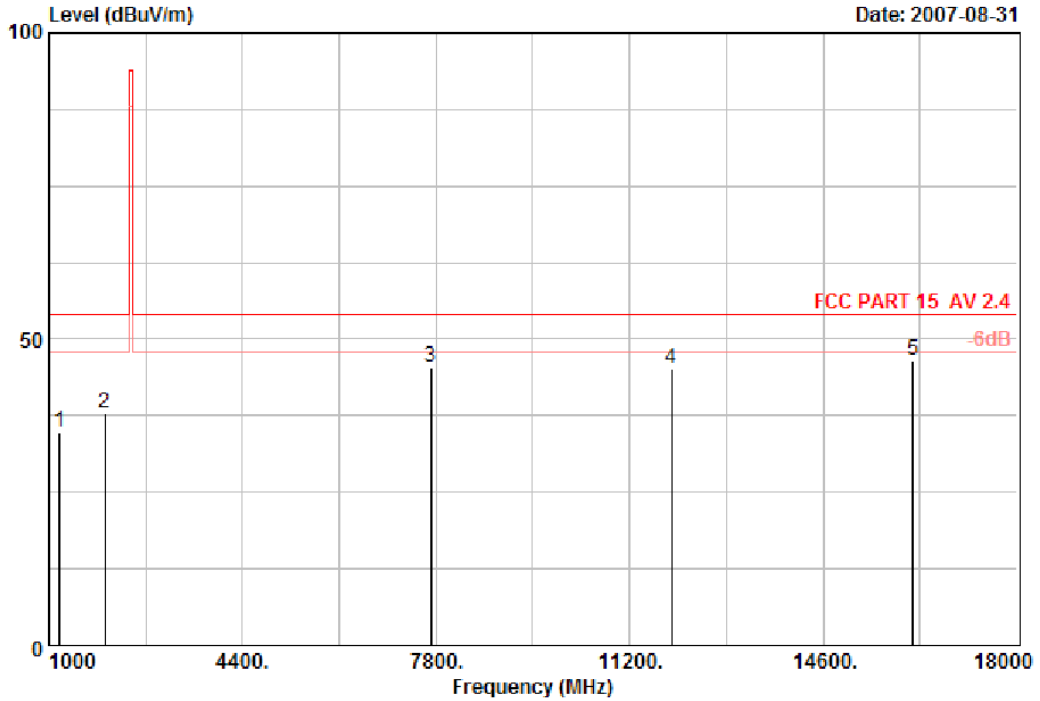
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Date: 2007-08-31



Site no. : RF Chamber Data no. : 30
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx CH High
 Memo : X position

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1	24.77	4.69	36.04	41.28	34.70	54.00	19.30	Average
2	27.97	6.34	35.32	38.94	37.93	54.00	16.07	Average
3	37.89	12.02	34.54	30.06	45.43	54.00	8.57	Average
4	39.49	13.56	36.39	28.45	45.11	54.00	8.89	Average
5	39.25	15.71	34.73	26.16	46.39	54.00	7.61	Average

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.

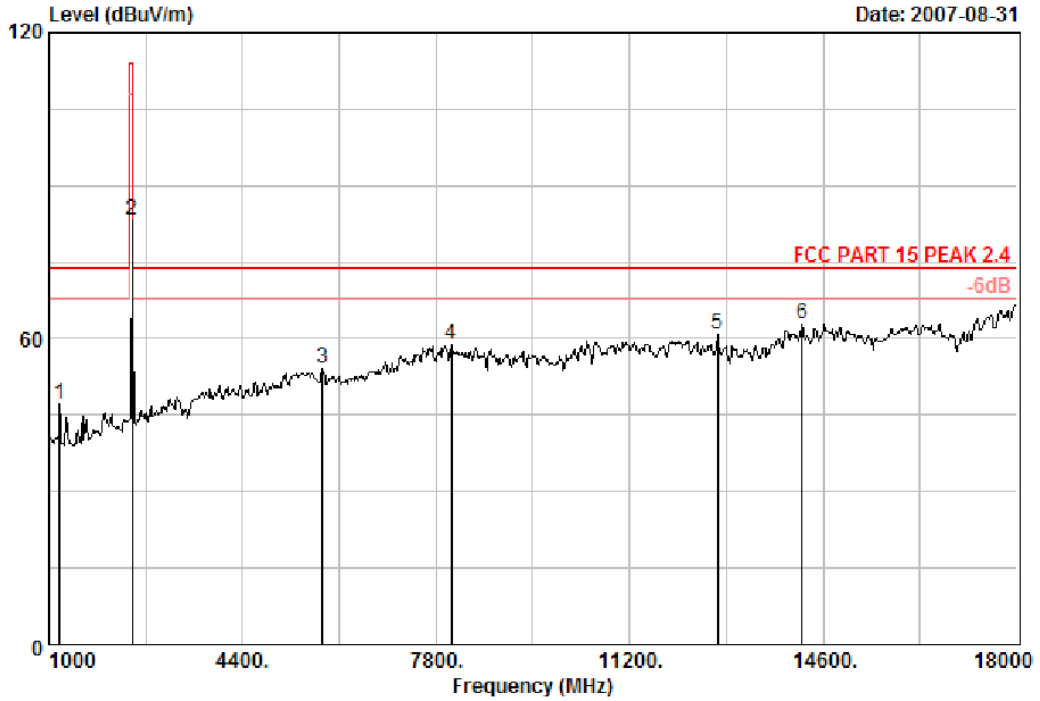
Fundamental Emission Average Result					
Freq(MHz)	Peak Level (dBμV/m)	PDCF(dBμV/m) (see Section 5)	Average Level (dBμV/m)	Limit(dBμV/m) (average)	Conclusion
2470	84.64	-24.44	60.20	94	PASS



No.6 Ke Feng Road,B1:ck 52,
 ShenZhen Science & Industry Park
 Noutou, ShenZhen, GuangDong, China
 Tel:+86-755-26639495-7
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Date: 2007-08-31



Site no. : RF Chamber Data no. : 27
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx CH High
 Memo : X position

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Amp		Emission				Remark
			Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	1187.00	24.77	4.69	36.04	53.59	47.01	74.00	26.99	Peak
2	2470.00	29.15	5.87	35.17	83.40	83.25	114.00	30.75	Peak
3	5811.00	36.01	9.39	34.25	43.03	54.18	74.00	19.82	Peak
4	8072.00	38.08	12.74	34.66	42.75	58.91	74.00	15.09	Peak
5	12747.00	39.54	13.59	36.14	43.78	60.77	74.00	13.23	Peak
6	14226.00	42.08	14.35	35.59	41.84	62.68	74.00	11.32	Peak

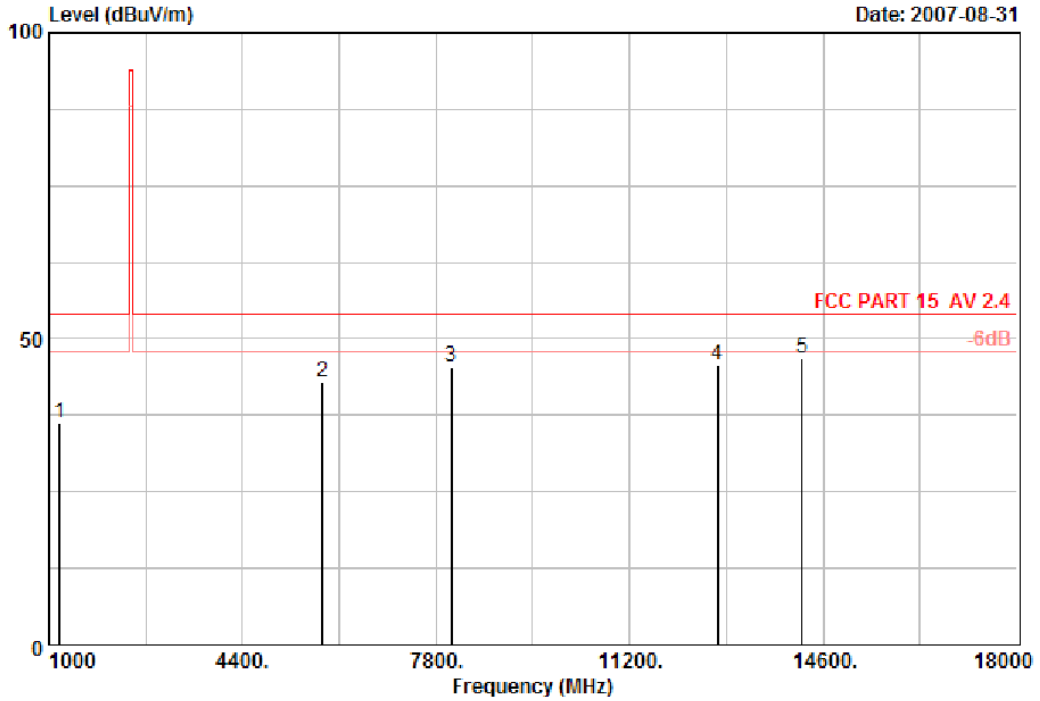
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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ShenZhen Science & Industry Park
Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
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Date: 2007-08-31



Site no. : RF Chamber Data no. : 28
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx CH High
 Memo : X position

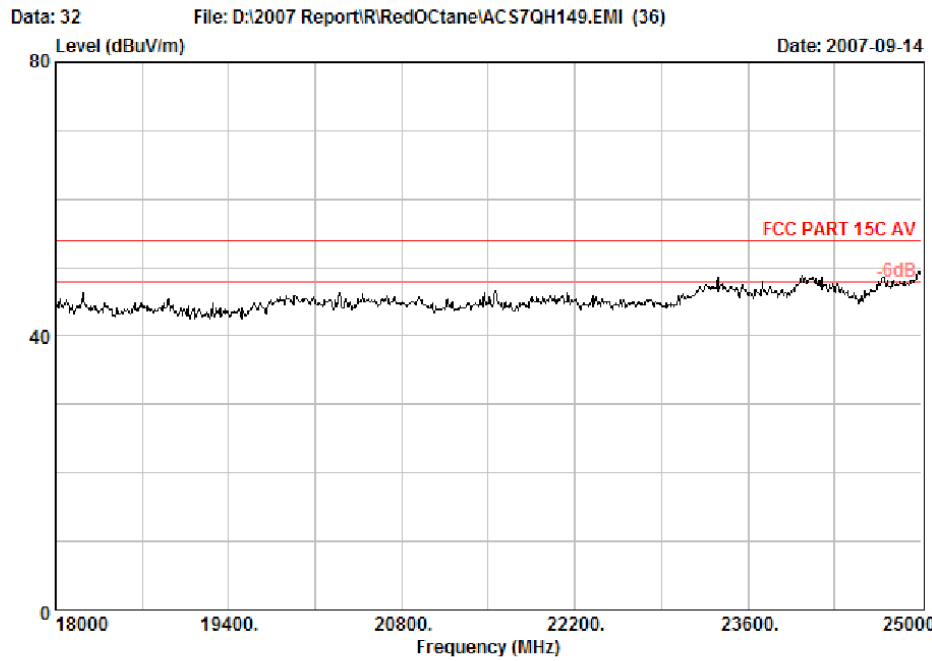
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission			Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)		
1	24.77	4.69	36.04	42.85	36.27	54.00	17.73	Average
2	36.01	9.39	34.25	31.83	42.98	54.00	11.02	Average
3	38.08	12.74	34.66	29.17	45.33	54.00	8.67	Average
4	39.54	13.59	36.14	28.78	45.77	54.00	8.23	Average
5	42.08	14.35	35.59	25.84	46.68	54.00	7.32	Average

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.

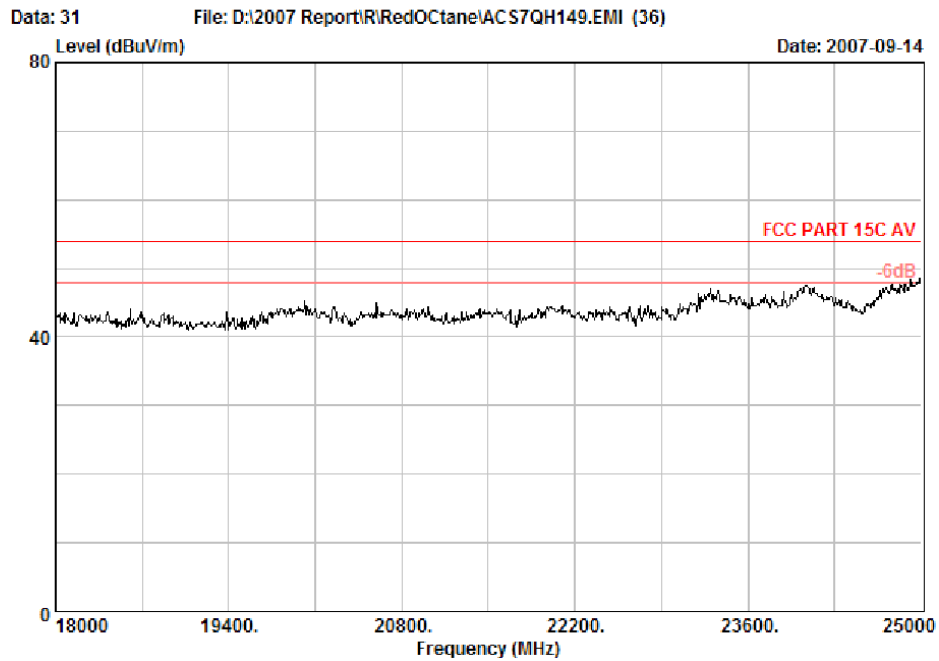
Fundamental Emission Average Result					
Freq(MHz)	Peak Level (dBμV/m)	PDCF(dBμV/m) (see Section 5)	Average Level (dBμV/m)	Limit(dBμV/m) (average)	Conclusion
2470	83.25	-24.44	58.81	94	PASS



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Noutou, ShenZhen, GuangDong, China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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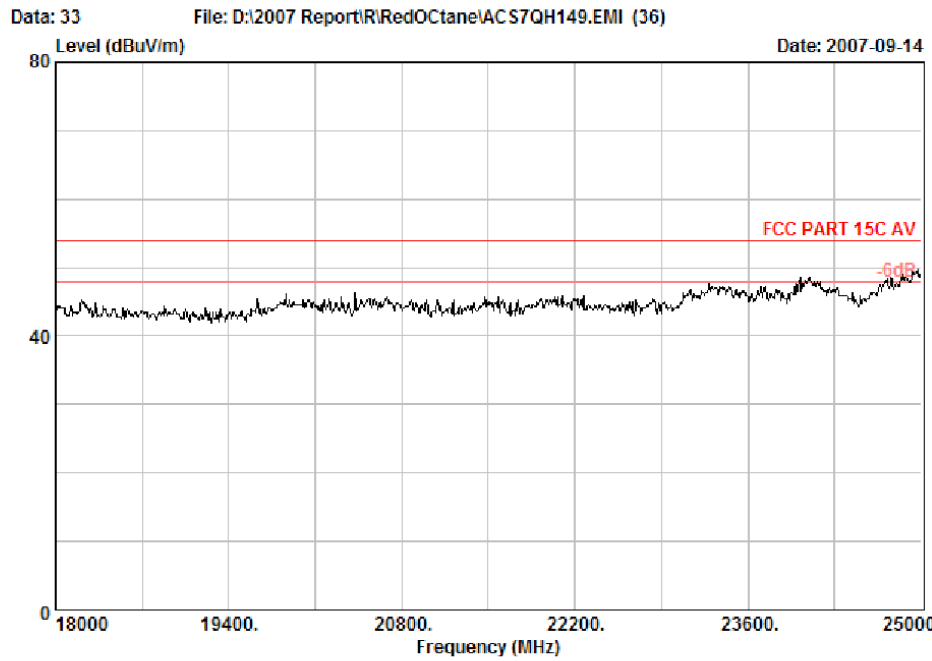
Site no. : RF Chamber Data no. : 32
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx CH Low
 Memo : X position



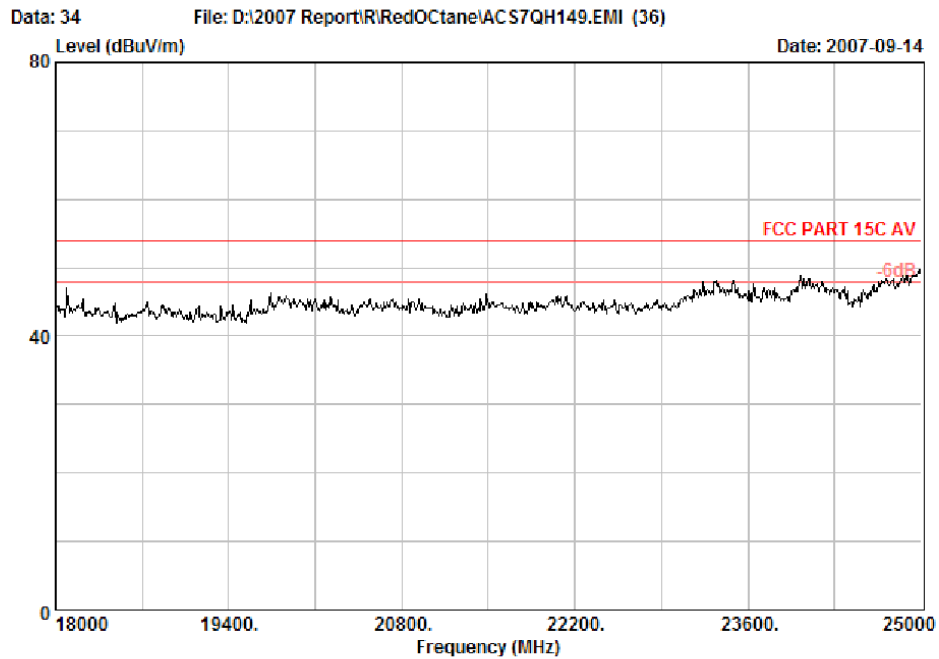
Site no. : RF Chamber Data no. : 31
 Dis. / Ant. : 3m Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx CH Low
 Memo : X position



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Noutou,Shenzhen,GuangDong,China
Tel:+86-755-26639495-7
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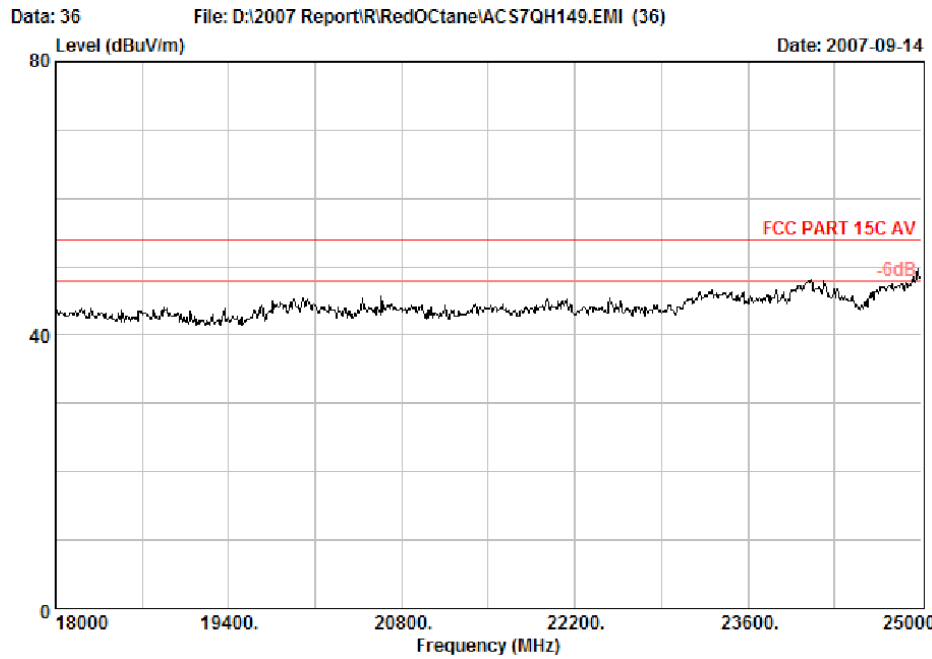
Site no. : RF Chamber Data no. : 33
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx CH Middle
 Memo : X position



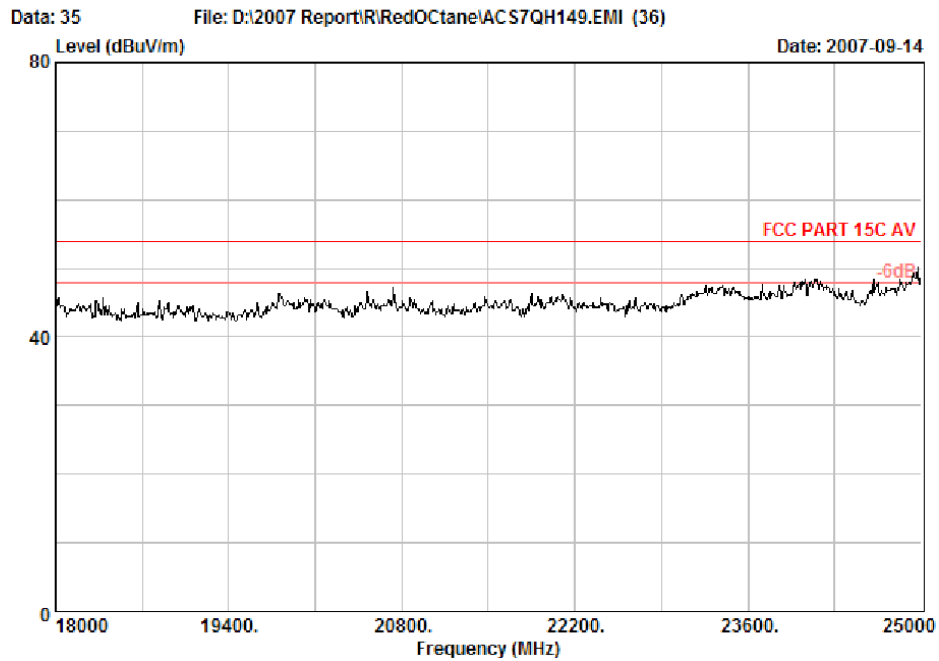
Site no. : RF Chamber Data no. : 34
 Dis. / Ant. : 3m Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx CH Middle
 Memo : X position



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

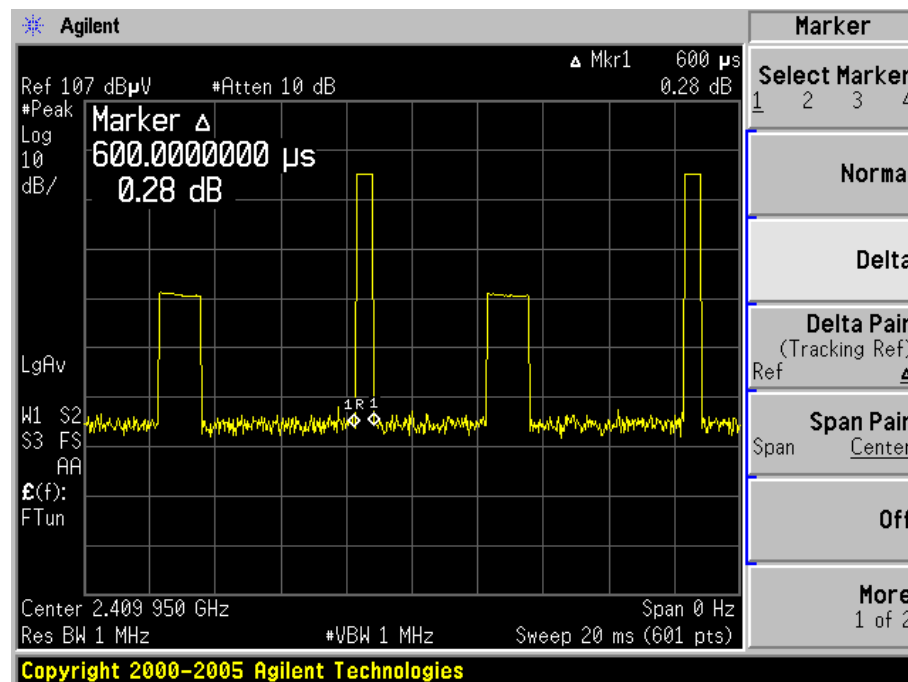
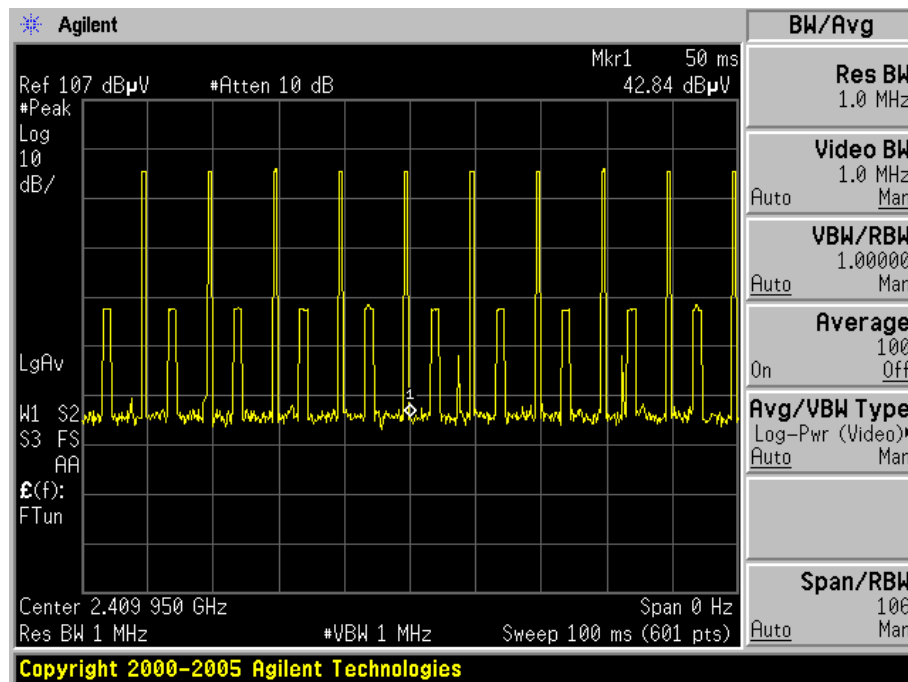


Site no. : RF Chamber Data no. : 36
 Dis. / Ant. : 3m Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx CH High
 Memo : X position



Site no. : RF Chamber Data no. : 35
 Dis. / Ant. : 3m Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Jamy
 EUT : PS3/Les Paul Wireless M/N:95121.806
 Power Rating : DC 5V From PS3
 Test Mode : Tx CH High
 Memo : X position

5. PULSE DESENSITIZATION CORRECTION FACTOR



$T_{\text{ontime}}(\text{assumed worse case}) = 10 * 0.6\text{ms} = 6\text{ms}$
 $\text{Duty cycle} = T_{\text{ontime}} / T_{\text{period}} = 6\text{ms} / 100\text{ms} = 0.06$
 $\text{PDCF} = 20 * \log(\text{Duty cycle}) = 20 * \log(0.06) = -24.44$

6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 11, 07	1 Year
2.	Amp	HP	8449B	3008A00863	May 11, 07	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 11, 07	1 Year

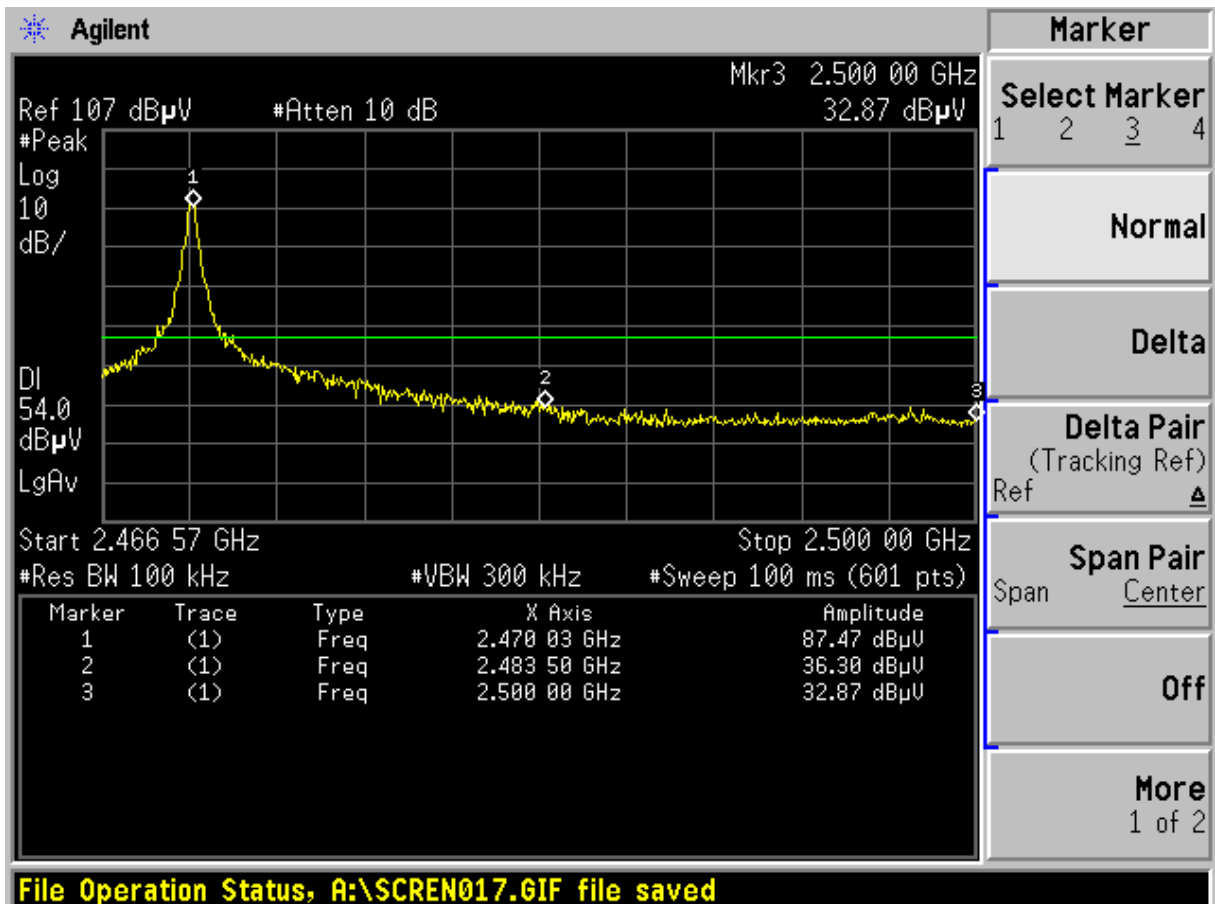
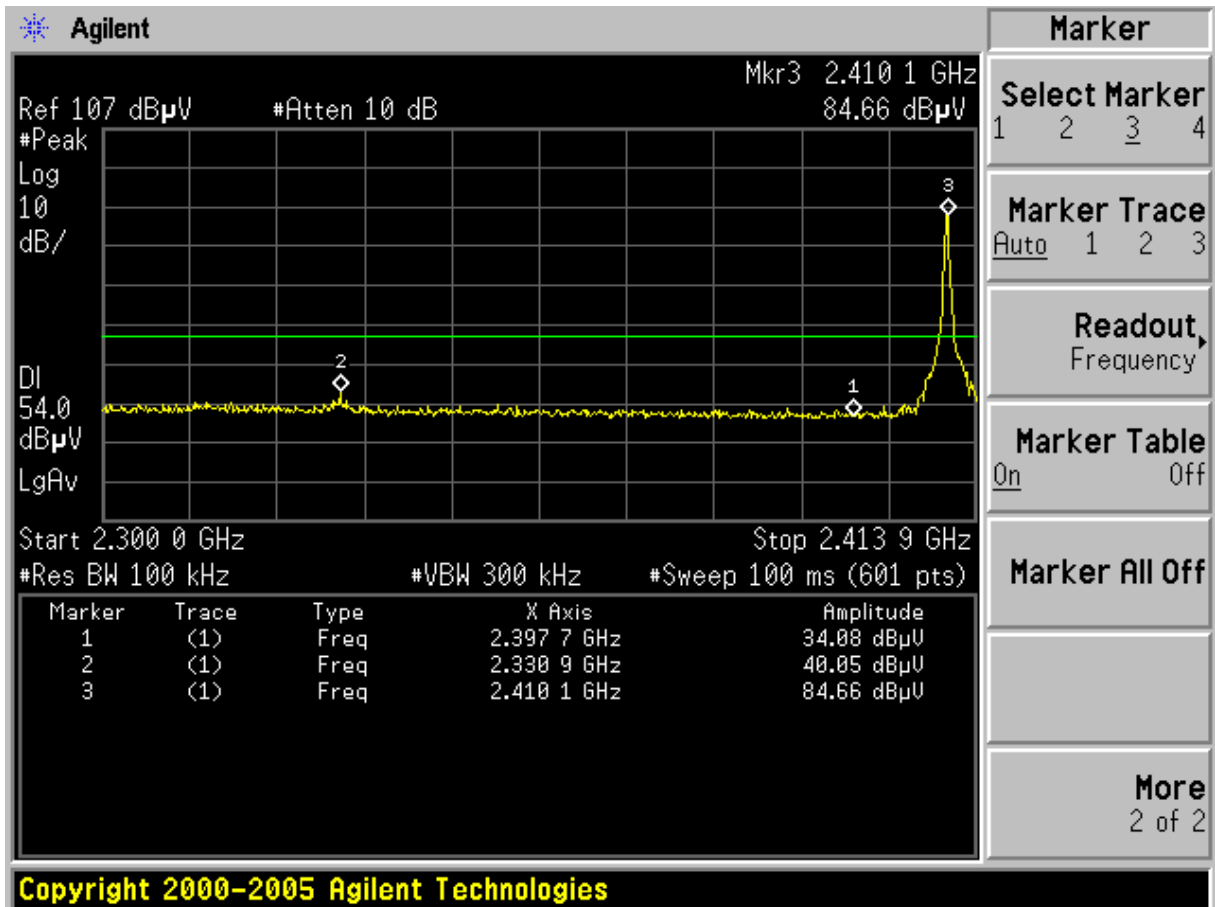
6.2. Test Information

EUT:	PS3/Les Paul Wireless
M/N:	95121.806
Test Date:	Sep.14, 2007
Ambient Temperature:	23°C
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.249
Test mode:	Transmitting
Test Frequency:	Low: 2410MHz High: 2470MHz
Test By:	Jamy

NOTE: This test was performed with antenna in horizontal and the maximum value would obtained in the position.

6.3. Test Results

Pass (The EUT was tested and all the test results are listed in next page.)



7. 20DB BANDWIDTH TEST

7.1. Test Equipment

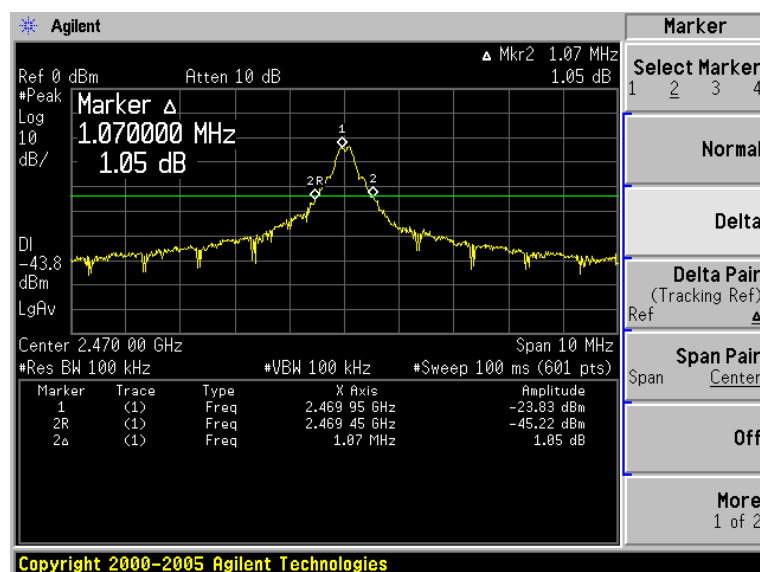
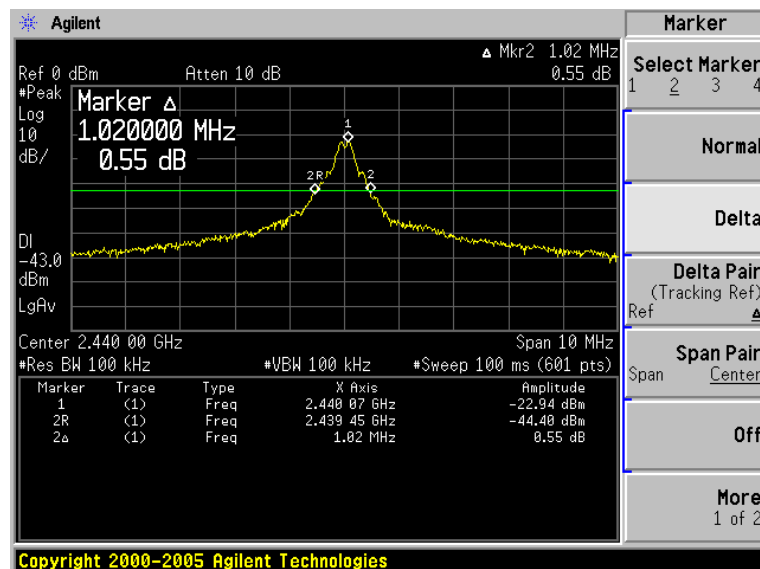
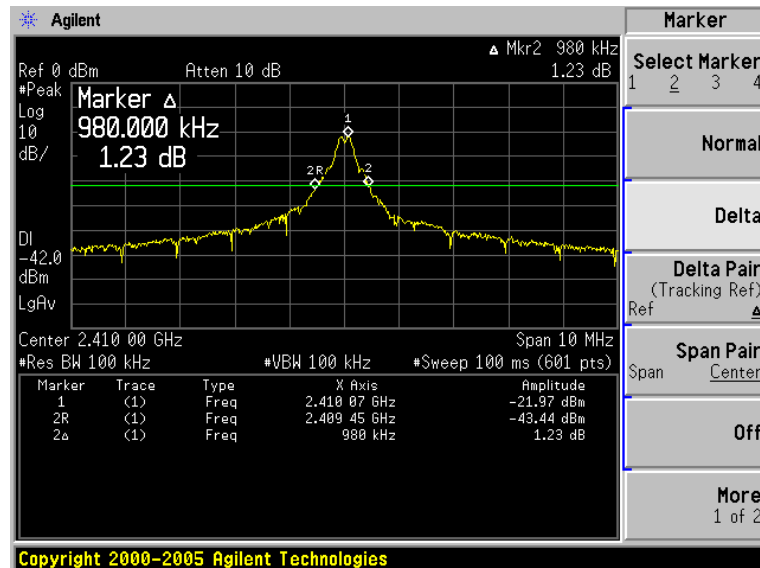
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 11, 07	1 Year
2.	Amp	HP	8449B	3008A00863	May 11, 07	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 11, 07	1 Year

7.2. Test Information

EUT:	PS3/Les Paul Wireless
M/N:	95121.806
Test Date:	Sep.14, 2007
Ambient Temperature:	23°C
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.215
Test mode:	Transmitting
Test Frequency:	Low: 2410MHz Mid: 2440MHz High: 2470MHz
Test By:	Jamy

7.3. Test Results

Pass (The EUT was tested and all the test results are listed in next page.)



8. DEVIATION TO TEST SPECIFICATIONS

[NONE]

9. PHOTOGRAPH

9.1. Photos of Power Line Conducted Emission Test



9.2. Photos of Radiated Emission Test (In Anechoic Chamber)

30~1000MHz



above 1000MHz

