





ISO/IEC17025 Accredited Lab.

Report No: FCC1109115-02

File reference No: 2011-12-13

Applicant: JOYSWAY HOBBY (HK) LIMITED

Product: 2.4GHz 4CH Radio Control

Model No: J4C11, J4C12, J4C13, J4C14, J4C15, J4C16, J4C17,

J4C18, J4C19, J2C01, J2C02, J2C03, J2C05, J2C06,

J2C07, J2C08, J2C09

Brand Name: Joysway

Test Standards: FCC Part 15 Subpart C, Paragraph 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.4&FCC Part 15 Subpart C,

Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: December 13, 2011

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA.

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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

IC- Registration No.: IC5205A-01

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.



Date: 2011-12-13



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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD

Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District,

Shenzhen, CHINA.

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-01

For 3m & 10 m OATS

1.2 Applicant Details

Applicant: JOYSWAY HOBBY (HK) LIMITED

Address: Flat/RM 924, 9/F, Beverley Commercial Centre, 87-105, Chatham Road, Tsimshatsui,

Hongkong, China

Telephone: +86-769-23296899 Fax: +86-769-88735015

1.3 Description of EUT

Product: 2.4GHz 4CH Radio Control

Manufacturer: Flat/RM 924, 9/F, Beverley Commercial Centre, 87-105, Chatham Road,

Tsimshatsui, Hongkong, China

Address: No.141, Guanghui Road, Wanjiang, Dongguan, China

Brand Name: Joysway Model Number: J4C11

Additional Model Name J4C12, J4C13, J4C14, J4C15, J4C16, J4C17, J4C18, J4C19, J2C01,

J2C02, J2C03, J2C05, J2C06, J2C07, J2C08, J2C09

Additional Trade Name N/A

Rating: Input: 6V, 0.075A

Modulation Type: GFSK

Operation Frequency 2403-2450MHz,

Frequency Channel 20

Antenna Designation a permanently attached antenna used

1.4 Submitted Sample: 1 Sample

The report refers only to the sample tested and does not apply to the bulk.

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Test Duration

2011-09-20 to 2011-12-13

Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions Uncertainty =4.7dB

Test Engineer 1.7

Terry Tang

The sample tested by

Print Name: Terry Tang

2.0		Test Equi	pments		
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2011-04-26	2012-04-25
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2011-04-26	2012-04-25
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2011-04-26	2012-04-25
Ultra Broadband ANT	Schwarebeck	VULB9163	9163/340	2011-04-26	2012-04-25
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2011-04-26	2012-04-25
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2011-04-26	2012-04-25
Power meter	Anritsu	ML2487A	6K00003613	2011-04-26	2012-04-25
Power sensor	Anritsu	MA2491A	32263	2011-04-26	2012-04-25
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2011-04-26	2012-04-25
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2011-04-26	2012-04-25
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2011-04-26	2012-04-25

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted	N/A	Not Applicable
ree ratt 13, ratagraph 13.207	Emission Test	14/A	ног Аррисавіс
FCC Part 15 Subpart C Paragraph 15.249(a)	Field Strength		
& 15.249(b) Limit	of	PASS	Complies
& 13.249(b) Ellint	Fundamental		
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d)	Band Edge	DACC	Complian
Limit	Test	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249

4.0 EUT Modification

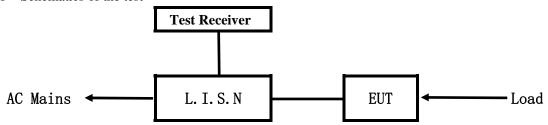
No modification by Shenzhen Timeway Technology Consulting Co.,Ltd

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

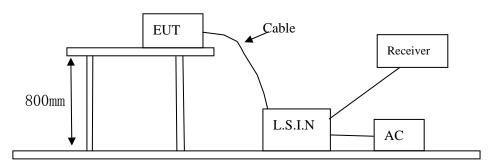


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
2.4GHz 4CH Radio	Flat/RM 924, 9/F, Beverley Commercial	J4C11	ZDTJ4C0002
Control	Centre, 87-105, Chatham Road, Tsimshatsui,		
	Hongkong, China		

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Eraguanay(MHz)	Class A Lir	nits (dB \mu V)	Class B Lim	nits (dB µ V)
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
$0.15 \sim 0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*
$0.50 \sim 5.00$	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: Due to the EUT powered by battery, this test item not applicable.

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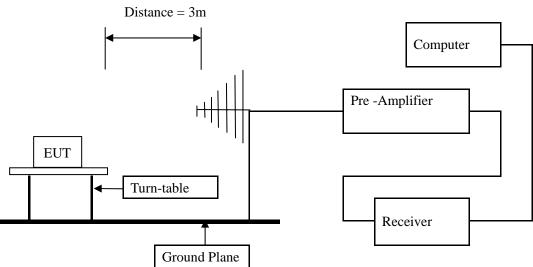
Date: 2011-12-13



6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup



- 6.2 Configuration of The EUT

 Same as section 5.3 of this report
- 6.3 EUT Operating Condition
 Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Ī	Fundamental Frequency	Field Stre	eld Strength of Fundamental (3m)			trength of Harmo	onics (3m)
	(MHz)	mV/m	dBuV/m		uV/m	dBu	V/m
ſ	2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note: 1. RF Field Strength $(dBuV) = 20 \log RF \text{ Voltage } (uV)$

- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB µ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK and AV detector.
- 6. New batteries used during the tests.

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6.5 Test result

Fundamental & Harmonics Radiated Emission Data \mathbf{A}

Product:	2.4GHz 4CH Radio Control	Test Mode:	Low Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	6.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2403	87.22 (PK)	Н	114/94	-6.78
2403	84.94 (PK)	V	114/94	-9.06
4806	50.75(PK)	Н	74/54	-3.25
4806		V	74/54	
7209		H/V	74/54	
9612		H/V	74/54	
12015		H/V	74/54	
14418		H/V	74/54	
16821		H/V	74/54	
19224		H/V	74/54	
21627		H/V	74/54	
24030		H/V	74/54	

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Product:	2.4GHz 4CH Radio Control	Test Mode:	Middle Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	6.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2425	84.31 (PK)	Н	114/94	-9.69
2425	82.15 (PK)	V	114/94	-11.85
4850		H/V	74/54	
7275		H/V	74/54	
9700		H/V	74/54	
12125		H/V	74/54	
14550		H/V	74/54	
16975		H/V	74/54	
19400		H/V	74/54	
21825		H/V	74/54	
24250		H/V	74/54	
26675		H/V	74/54	

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Product:	2.4GHz 4CH Radio Control	Test Mode:	High Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	6.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2450	92.05(PK)	Н	114/94	-1.95
2450	82.14(PK)	V	114/94	-11.86
4900	54.30(PK)/42.61(AV)	Н	74/54	-19.7/11.39
4900		V	74/54	
7350		H/V	74/54	
9800		H/V	74/54	
12250		H/V	74/54	
14700		H/V	74/54	
17150		H/V	74/54	
19600		H/V	74/54	
22050		H/V	74/54	
24500		H/V	74/54	
26950		H/V	74/54	

Note: (1) PK= Peak, AV= Average

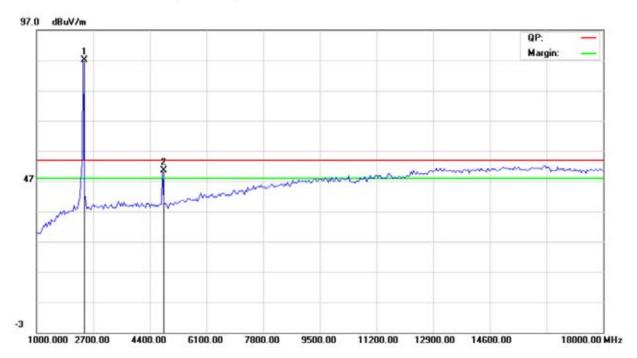
- (2) Emission Level = Reading Level + Antenna Factor + Cable Loss.
- (3)Margin=Emission-Limits
- (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) The measured PK value less than the AV limit.
- (6) the EUT is keeping continuously Transmitting during the tests at Low, Middle, High Channel

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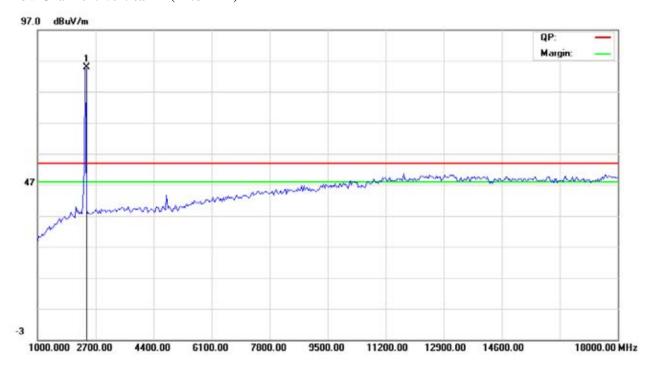


Please refer to the following test plots for details:

Low Channel: Horizontal (2403MHz)



Low Channel: Vertical (2403MHz)



The report refers only to the sample tested and does not apply to the bulk.

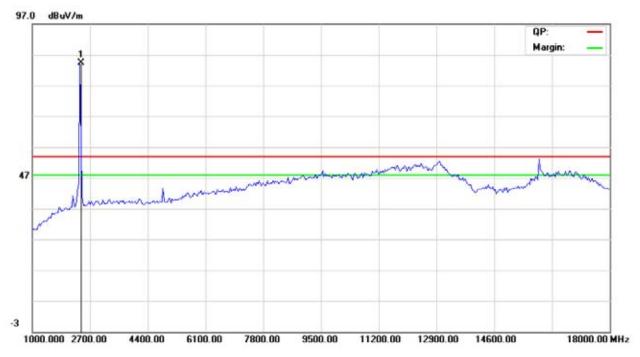
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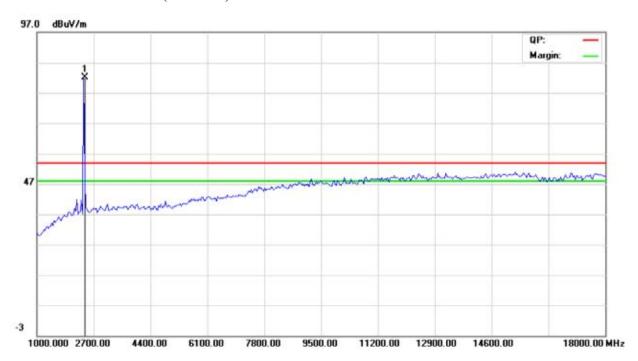
Date: 2011-12-13



Middle Channel: Horizontal (2425MHz)



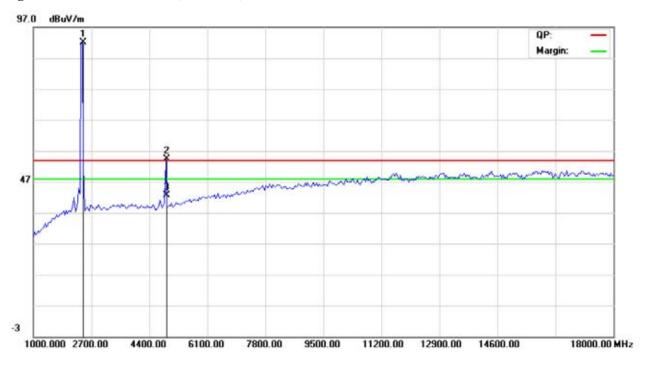
Middle Channel: Vertical (2425MHz)



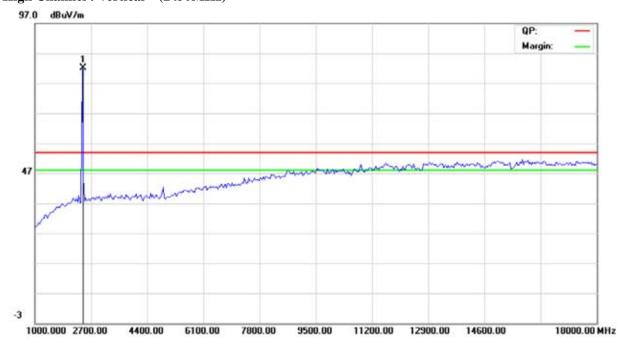
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High Channel : Horizontal (2450MHz)



High Channel : Vertical (2450MHz)



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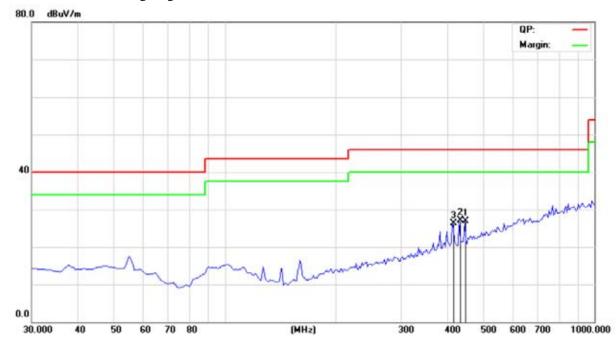


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep transmitting Mode: Low Channel

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
447.936	26.85	Н	46.00
432.384	27.12	Н	46.00
414.889	26.33	Н	46.00

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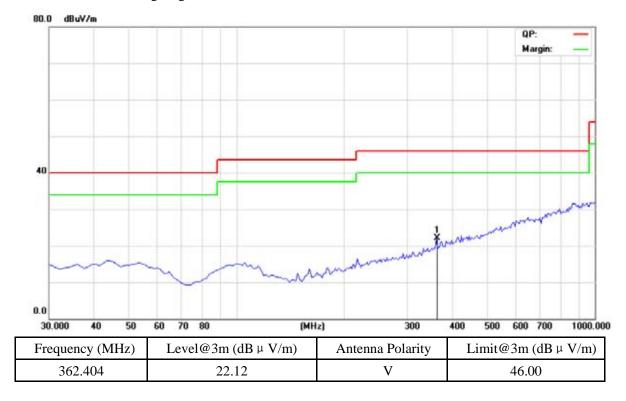


Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep transmitting Mode: Low Channel

Results: Pass

Please refer to following diagram for individual



Date: 2011-12-13

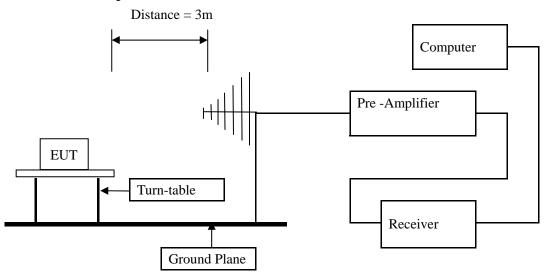


7.0 Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) Set Spectrum as RBW=VBW=1MHz and Peak detector used
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

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

Remark: low, mid and high channel all have been tested; only worse case is reported.

The report refers only to the sample tested and does not apply to the bulk.

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7.6 Test Result

2200.000 2221.00

Product:	2.4GHz 4CH	I Radio Control	Test Mode:	Low Channel
Mode	Keeping Transmitting		Test Voltage	DC6V
Temperature	24 deg. C		Humidity	56% RH
Test Result:	Pass		Detector	PK
2200 000MH-	PK (dBμV/m)	55.15	T ::4	74(dBμV/m)
2390.000MHz	AV(dBμV/m)	39.40	Limit –	54(dBµV/m)
2400 00MHz	PK (dBμV/m)	71.53	T imit	74(dBμV/m)
2400.00MHz	AV(dBμV/m)	48.88	Limit –	54(dBµV/m)

Horizontal 97.0 dBuV/m Qp: Margin: mander of the standard of the 47

2368.00

2347.00

2410.00 MHz

2242.00

2263.00

2284.00

2305.00

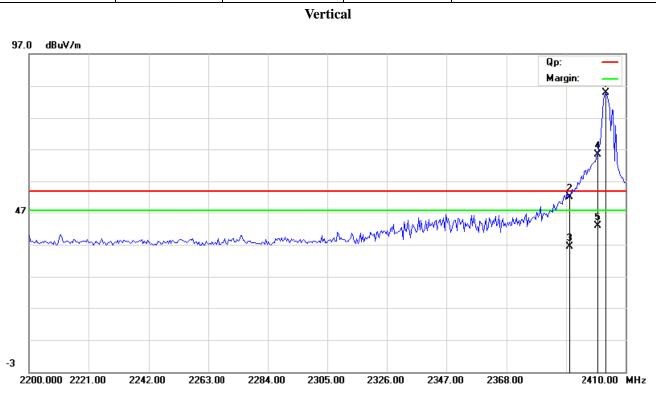
2326.00

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Product:	2.4GHz 4CH	I Radio Control	Test Mode:	Low Channel
Mode	Keeping	Гransmitting	Test Voltage	DC6V
Temperature	24 deg. C		Humidity	56% RH
Test Result:	Pass		Detector	PK
2200 000MHz	PK (dBμV/m)	52.20	I ::t	$74(dB\mu V/m)$
2390.000MHz	$AV(dB\mu V/m)$	36.44	Limit	54(dBµV/m)
2400 00MHz	PK (dBμV/m)	65.42	I :i4	74(dBμV/m)
2400.00MHz	AV(dBμV/m)	42.80	Limit	54(dBμV/m)

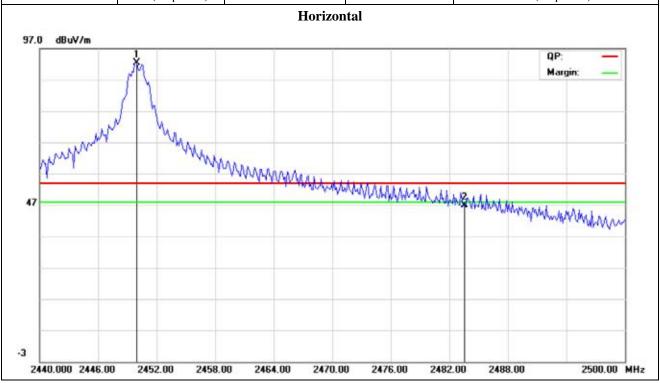


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Product:	2.4GHz 4CH Radio Control		Test Mode:	High Channel
Mode	Keeping Transmitting		Test Voltage	DC6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2492 5MHz	PK (dBμV/m)	46.97	Limit	$74(dB\mu V/m)$
2483.5MHz	AV(dBμV/m)		Limit	54(dBμV/m)

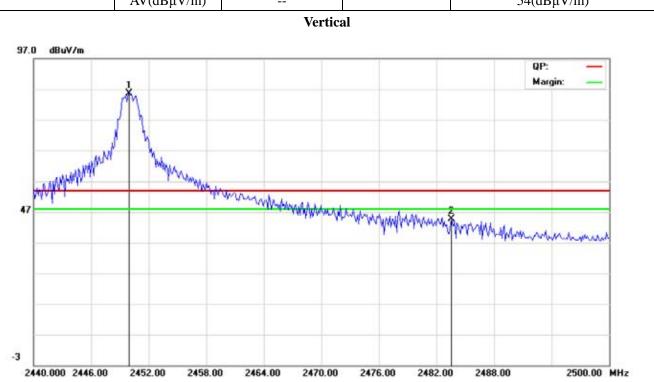


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Product:	2.4GHz 4CH Radio Control		Test Mode:	High Channel
Mode	Keeping Transmitting		Test Voltage	DC6V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2492 5MHz	PK (dBμV/m)	44.54	I ::t	$74(dB\mu V/m)$
2483.5MHz	AV(dBμV/m)		Limit	$54(dB\mu V/m)$



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8.0 Antenna Requirement

Applicable Standard

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has built-in a Dipole antenna; fulfill the requirement of this section.

Test Result: Pass

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Product:	2.4GHz 4CH Radio Control		rol Te	est Mode:	Low Channel			
Mode		g Transmitting	ng Test Voltage			DC6.0V 56% RH		
Temperature		deg. C,		Humidity				
	Test Result: Pass Detector F					Pl		
0dB Bandwidth								
^	Marker	1 [T1 ndB]	RBh	l 100 k	Hz RF	Att	10 dB	
Ref Lvl	ndB	20.00				1122	10 05	
O dBm	BW 95!	5.91182365	kHz SWT	5 m	s Ur	nit	dBm	٦
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-50		W/V		"	4,			
-00		W			WHL.	Vhaljaga ay	./	1
-60 MMMMMM		J*			V	A Milmy 14	Work Hard	
-70								
- 70								1
00								
-80								1
-90								1
100 Center 2.40	13 GHz	<u> </u>	300 kHz/	l		Sna	ın 3 MHz	J
5511161 2.46	, 5 5112		000 111127			200	5 11112	

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Product:	2.4GHz 40	CH Radio (Control	Tes	t Mode:		Middle	Channel	
Mode	Keeping Transmitting			Test V	Test Voltage		DC6.0V		
Temperature		4 deg. C,		Humio	lity		56% RH		
Test Result:		Pass		De	etector		P	K	
20dB Bandwidth	1.0	0942MHz					-	_	
r)	Marker	1 [T1 r	ndB]	RBW	100 k	Hz RF	Att	10 dB	
Ref Lvl O dBm	ndB BW	20. 1.094188	.00 dB 338 MHz	VBW SWT	100 k 5 m		nit	dBm)
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-20			1	~ M					
-30					Yu .				
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-60 ************	Markey						* U (r)	Mushan	
-70									
-80									•
-90									
400									
-100 L Center 2.42	- 25 GHz	1	300 1				Sna	an 3 MHz	J
ate: 06.D									

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Product:	2.4GHz 4CH Radio Control		Tes	t Mode:		High C	hannel	
Mode	Keepin	Test V	Test Voltage		DC6.0V			
Temperature	2	4 deg. C,	Humio	lity	56% RH			
Test Result:		Pass	De	etector		Pl	K	
20dB Bandwidth	1.	064MHz					-	
Ref Lvl	Marker ndB	1 [T1 ndB] 20.00 dB	RBW VBW	100 kH 100 kH		Att	10 dB	
O dBm		1.06412826 MHz	SWT	5 ms		nit	dBm) -
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-10								
-20		1	Ω Λ					
-30				ly				
1MAX		TAN		W. W.				1MA
-40					\ \			
-50		 			~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	MWar .		
-60 mul	Malor Jeberhan	,				- and h	Mhours	
•								
-70								
-80								
-90								
-100 L Center 2.4	-5 GHz	300	kHz/			Spa	n 3 MHz	J
Center 2.4 ate: 06.1			kHz/			Spa	n 3 MHz	

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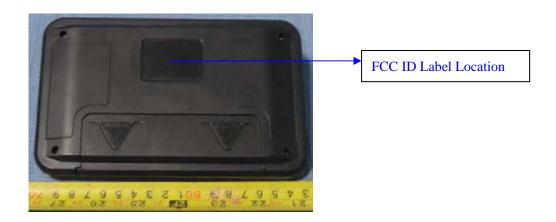
10.0 FCC ID Label

FCC ID: ZDTJ4C0002

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



Date: 2011-12-13



11.0 Photo of testing

11.1 Conducted test View-N/A

11.2 Radiated emission test view





The report refers only to the sample tested and does not apply to the bulk.

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Photo for the EUT 11.3

Outside View





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Outside View

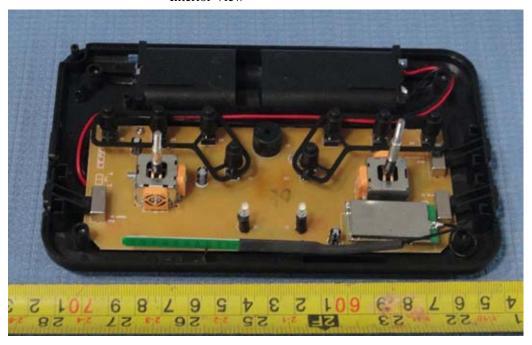


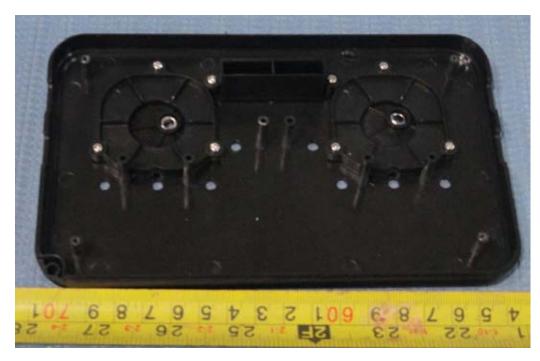
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Interior View



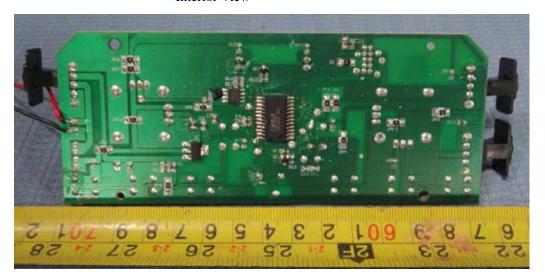


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Interior View



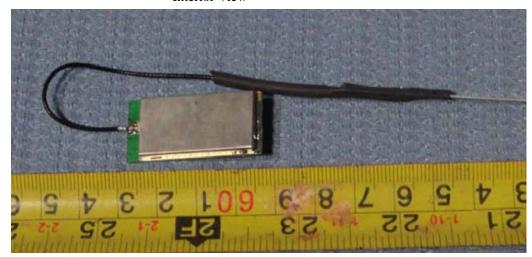


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Interior View

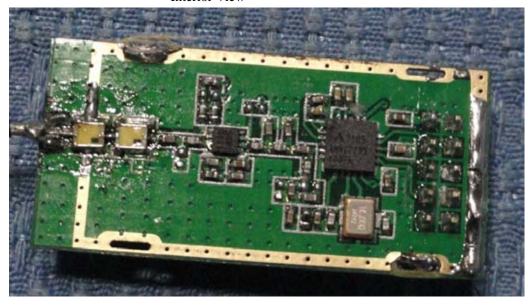


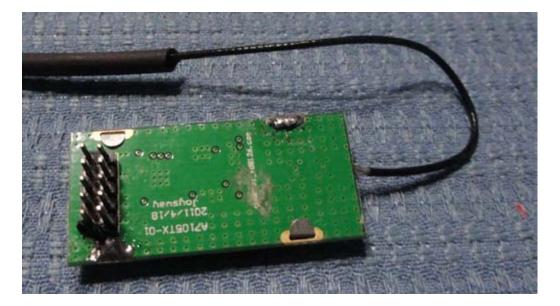


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Interior View





-- End of the report--