



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID/IC TEST REPORT

**TEST REPORT NUMBER :
CNB3110705-02688-O & CNB3110601-02123-E**



CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao,
Guangzhou, China.



TEST REPORT For FCC ID	
47 CFR PART 15 OCT, 2009	
Report Reference No.	CNB3110705-02688-O & CNB3110601-02123-E
Date of issue	7Jun~10 Aug 2011
Testing Laboratory Name	CETRE OF TESTING SERVICE CO., LTD
Address	Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.
Testing location/ procedure	Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
Applicant's name	Flying Tian Electronic(Shanghai)Co.,Ltd
Address	960 Shenglong Road, Jiuting Town, Songjiang District, Shanghai, China
Test specification	
Standard	47 CFR PART 15 OCT, 2010, ANSI C63.4-2009 RSS-210 Issue 8, RSS-Gen Issue 3
Test Report Form No.	CTSEMC-1.0
TRF Originator	CENTRE OF TESTING SERVICE CO., LTD
Master TRF	Dated 2009-01
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Test item description	3 Channel 2.4GHz Transmitter W/Built-In Charger
Trade Mark	--
Manufacturer	Flying Tian Electronic(Shanghai)Co.,Ltd
Model/Type reference	EFLRT324
Ratings	4xStandard AA Batteries
Operating Frequency	2403.00 and 2479.00MHz/ GFSK
Result	Positive

Compiled by:

Violet

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Vincent Yao

Vincent yao / Manager

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FCC ID / IC -- T E S T R E P O R T

Test Report No. :	CNB3110705-02688-O CNB3110601-02123-E	<u>10 Aug 2011</u> Date of issue
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Type / Model.....	EFLRT324
EUT.....	3 Channel 2.4GHz Transmitter W/Built-In Charger
Applicant.....	Flying Tian Electronic(Shanghai)Co.,Ltd
Address.....	960 Shenglong Road, Jiuting Town, Songjiang District, Shanghai, China
Telephone.....	+86-21-67627555
Fax.....	+86-21-67690630
Contact.....	Lin Chunling
Manufacturer.....	Flying Tian Electronic(Shanghai)Co.,Ltd
Address.....	960 Shenglong Road, Jiuting Town, Songjiang District, Shanghai, China
Telephone.....	+86-21-67627555
Fax.....	+86-21-67690630
Contact.....	Lin Chunling
Test report holder.....	Flying Tian Electronic(Shanghai)Co.,Ltd
Address.....	960 Shenglong Road, Jiuting Town, Songjiang District, Shanghai, China
Telephone.....	+86-21-67627555
Fax.....	+86-21-67690630
Contact.....	Lin Chunling

Test Result according to the standards on page 3: **Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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1. TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2010
- ANSI C63.4-2009
- RSS-Gen Issue 3
- RSS-210 Issue 8

2. SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	7 Jun 2011
Testing commenced on	14 Jun 2011
Testing concluded on	10 Aug 2011

2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

- - fulfilled.
- - **not** fulfilled.

The equipment under test

- - fulfils the FCC requirements cited on page 3.
- - **does not** fulfil the FCC requirements cited on page 3.

3. EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage : ■ 4xStandard AA Batteries

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1

Serial number: Prototype

3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

- – Standby
- TX- Y position
- TX- Z position
- TX- X position
- RX Normal link

Operation mode 1: TX-X Position Low (2403MHz) ,TX-X Position High (2479MHz)

Operation mode 2: RX Normal Link

Note: TX -X position and RX Normal Link of EUT is the worst case, so only these test results be recorded in the test report.



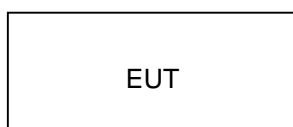
3.4 EUT configuration

3.4.1. Description of configuration (EUT)

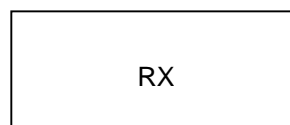
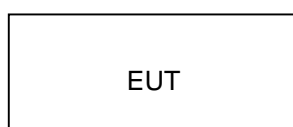
Description	:	3 Channel 2.4GHz Transmitter W/Built-In Charger
Model Number	:	EFLRT324
Operation frequency	:	2403 and 2479MHz ISM Band
Radio Technology	:	GFSK
Modulation Technology	:	GFSK modulation
Antenna	:	Integral antenna, met requirement of FCC 15.203
Antenna Assembly Gain	:	0dBi (maximum)

3.4.2. Tested Supporting System Details

TX



TX and RX



4. TEST ENVIRONMENT

4.1 Address of the test laboratory

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

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4.2 Test facility

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

CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

IC-Registration No.: 8374A

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374A on June 6, 2011.

FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD, 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.791995, July 21, 2009.

4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

4.4 Definitions of symbols used in this test report

- - The black square indicates that the listed condition, standard or equipment is applicable for this report.
- - The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	$\pm 1.22\text{dB}$	(1)
Power disturbance	30MHz~300MHz	$\pm 1.38\text{dB}$	(1)
Radiation emission (3m)	30MHz~300MHz	$\pm 3.14\text{dB}$	(1)
	300MHz~1000MHz	$\pm 3.18\text{dB}$	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

5. Summary of standards and results

5.1. 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
Conducted Emission Test	FCC Part 15 C: 15.207 ANSI C63.4-2009 RSS-Gen: 7.2.4 ANSI C63.4-2009	Not Applicable
Radiated Emission Test	FCC Part 15 C: 15.209 RSS-Gen: 7.2 RSS-210 A2.9 ANSI C63.4-2009	PASSED
Spurious Emission	FCC Part 15 C: 15.249 RSS-Gen: 7.2 RSS-210 Table 2 ANSI C63.4-2009	PASSED
Band Edge Compliance Test	FCC Part 15 C: 15.249 ANSI C63.4-2009 RSS-210 Annex 8	PASSED
99% Bandwidth	RSS-210 Annex 8 RSS-Gen 4.6.1	PASSED
N/A is an abbreviation for Not Applicable.		



6. Power Line Conducted Emission Test

6.1. Test Equipment

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2010/12
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2010/12
3	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/026	2010/12
4	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2010/12
5	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2010/12

6.2. Block Diagram of Test Setup



(EUT: 3 Channel 2.4GHz Transmitter W/Built-In Charger)

6.3. 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.

6.4. Test Procedure

The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#1). Power on the PC and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC Part 15C on Conducted Emission Test.

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

6.5. Power Line Conducted Emission Test Results

Not Applicable (The EUT power supply by 4xStandard AA Batteries and the RX power supply by DC 3.7V Battery)



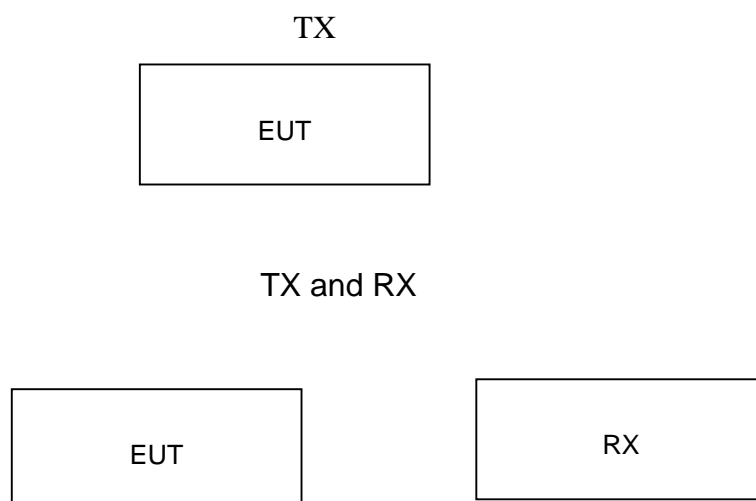
7. Radiated disturbance (electric field)

7.1. Test Equipment

Radiated disturbance (electric field)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2010/12
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2010/12
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2010/12
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2010/12
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2010/12
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2010/12

7.2. Block Diagram of Test Setup

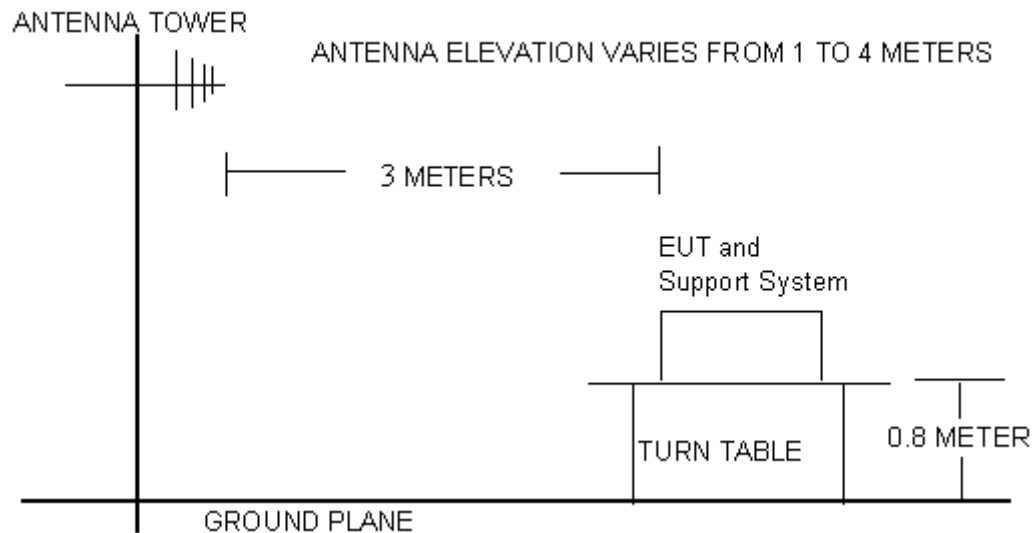
7.2.1 Block Diagram of connection between EUT and simulators



(EUT: 3 Channel 2.4GHz Transmitter W/Built-In Charger)



7.2.2 Anechoic Chamber Setup Diagram



7.3.Radiated Emission Limit Standard: FCC 15.209, FCC 15.249 and RSS-210 A2.9 Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (µV/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		µV/m	dB(µV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other: 74.0 dB(µV)/m (Peak) 54.0 dB(µV)/m (Average)	

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



7.4. 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 C63.4-2009 on radiated emission Test.

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

Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

7.5. Radiated Emission Test Results

PASSED.

The frequency range from 9KHz~30MHz, 30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.



Test Mode:	TX -X Position Mode	Result:	<input checked="" type="checkbox"/> - passed
Frequency range:	9KHz~30MHz		<input type="checkbox"/> - not passed

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Det.
1	0.0171	18.04	13.13	31.17	peak
2	0.3299	18.52	7.73	26.25	peak
3	1.1321	18.61	5.16	23.77	peak
4	2.2743	18.72	5.15	23.87	peak
5	7.2547	19.27	6.17	25.44	peak
6	11.6130	19.66	3.93	23.59	peak
7	24.6929	21.22	6.35	27.57	peak

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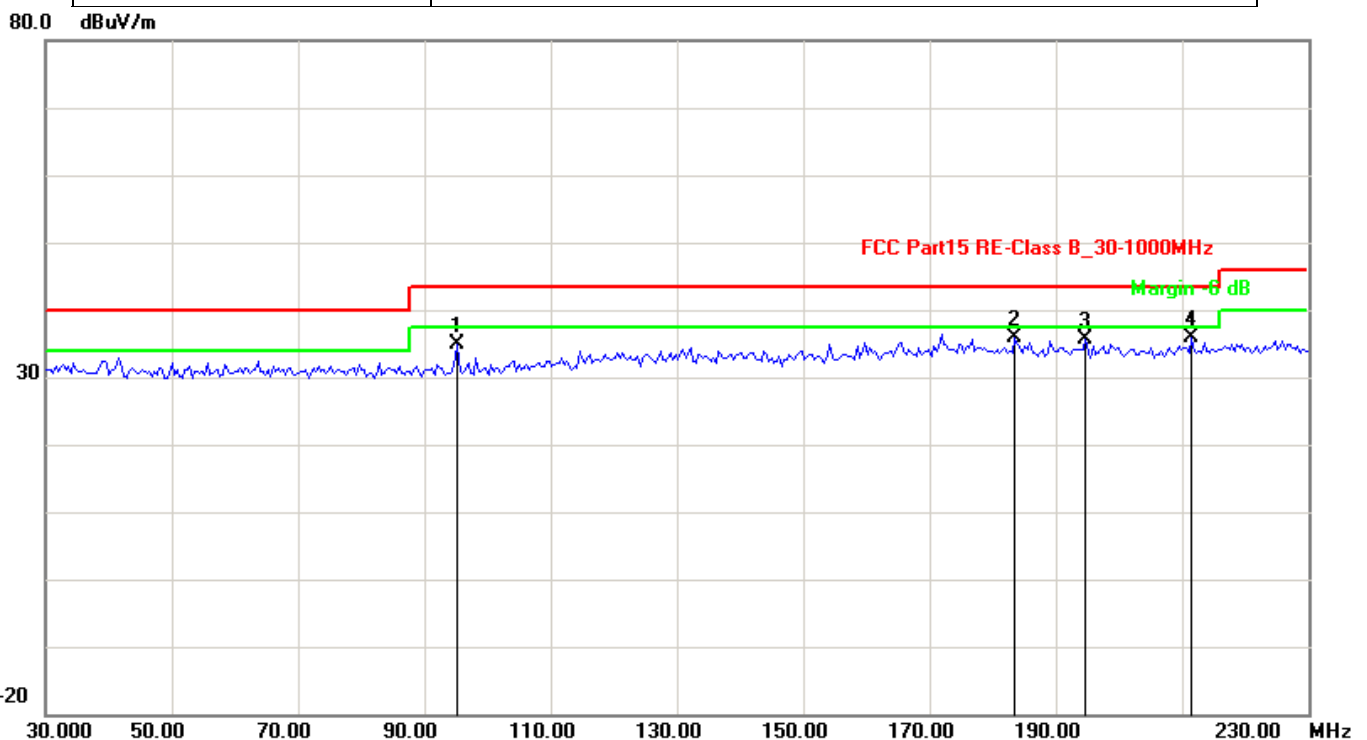
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Channel:	TX -X Position Mode	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	30-230MHz and 230-1000MHz		

EUT	3 Channel 2.4GHz Transmitter W/Built-In Charger
Firm Name	Flying Tian Electronic(Shanghai)Co.,Ltd
Operating Condition	4xStandard AA Batteries
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	7 Jun~10 Aug 2011
Operator	Peter
MODEL NO	EFLRT324



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	95.3307	5.01	29.90	34.91	43.50	-8.59	QP
2	183.5070	7.43	28.40	35.83	43.50	-7.67	QP
3	194.7295	7.38	28.29	35.67	43.50	-7.83	QP
4	211.5631	7.40	28.54	35.94	43.50	-7.56	QP

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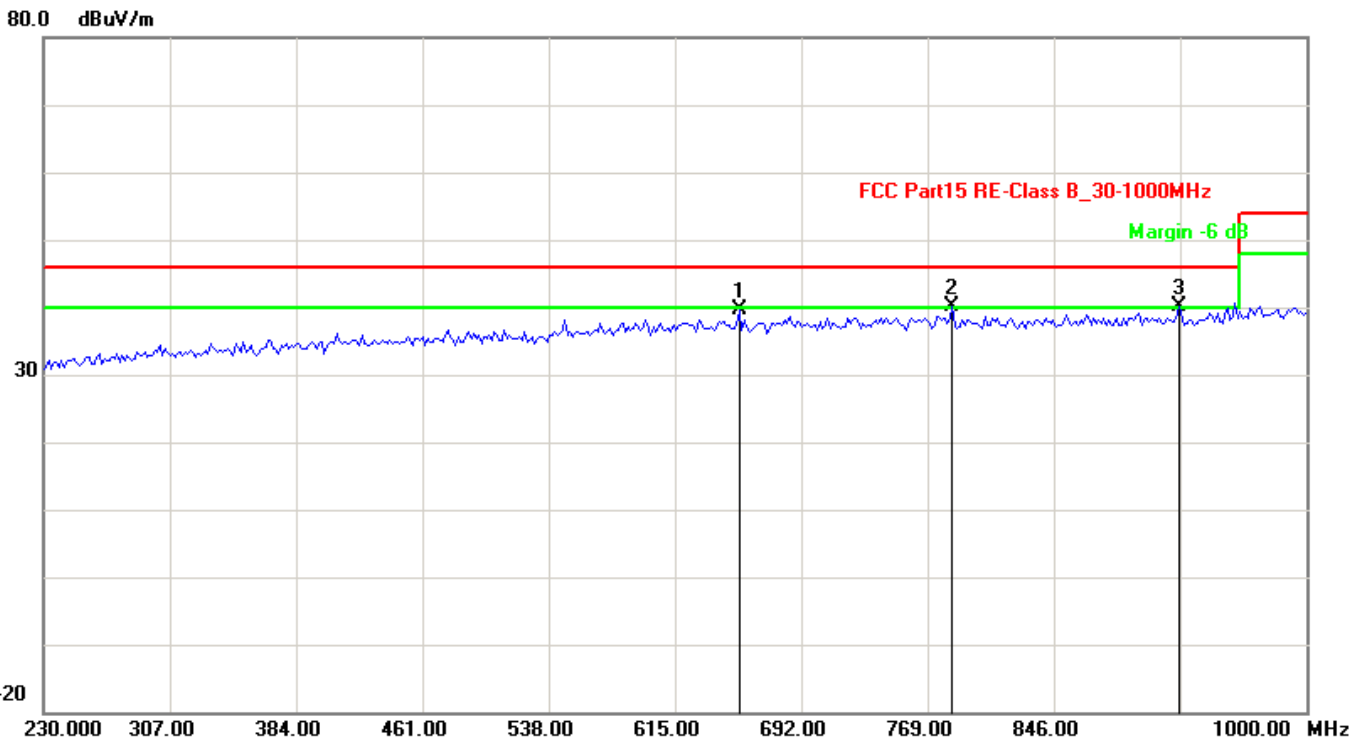
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	654.3487	9.82	29.71	39.53	46.00	-6.47	QP
2	783.9679	10.16	29.94	40.10	46.00	-5.90	QP
3	922.8457	10.50	29.69	40.19	46.00	-5.81	QP

Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss
3. Margin=Level-Limit.



Channel:	TX -X Position Mode Low 2403MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	1GHz-40GHz		

EUT	3 Channel 2.4GHz Transmitter W/Built-In Charger
Firm Name	Flying Tian Electronic(Shanghai)Co.,Ltd
Operating Condition	4xStandard AA Batteries
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	7 Jun~10 Aug 2011
Operator	Peter
MODEL NO	EFLRT324

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2403.217	17.93	75.65	93.58	114.00	-20.42	Peak
2	2403.217	17.93	65.04	82.97	94.00	-11.03	AVG
3	2587.174	18.58	21.31	39.89	54.00	-14.11	AVG
4	2983.968	20.29	18.93	39.22	54.00	-14.78	AVG
5	7767.535	26.47	18.51	44.98	54.00	-9.02	AVG
6	9839.679	28.95	17.06	46.01	54.00	-7.99	AVG
7	10456.914	28.84	19.14	47.98	54.00	-6.02	AVG
8	11867.735	29.97	17.15	47.12	54.00	-6.88	AVG
Remark: Other frequency mini margin all >10 dB of Limit							

- Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss
3. Margin=Level-Limit.

Channel:	TX -X Position Mode High 2479MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	1GHz-40GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2479.041	18.07	74.90	92.97	114.00	-21.03	peak
2	2479.041	18.07	63.45	81.52	94.00	-12.48	AVG
3	2322.645	17.49	29.91	47.40	74.00	-26.60	peak
4	5717.435	24.41	19.96	44.37	54.00	-9.63	AVG
5	6488.978	25.00	18.23	43.23	54.00	-10.77	AVG
6	6973.948	25.16	20.77	45.93	54.00	-8.07	AVG
7	9641.283	28.52	17.85	46.37	54.00	-7.63	AVG
8	10523.046	28.78	17.91	46.69	54.00	-7.31	AVG
Remark: Other frequency mini margin all >10 dB of Limit							

- Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss
3. Margin=Level-Limit.

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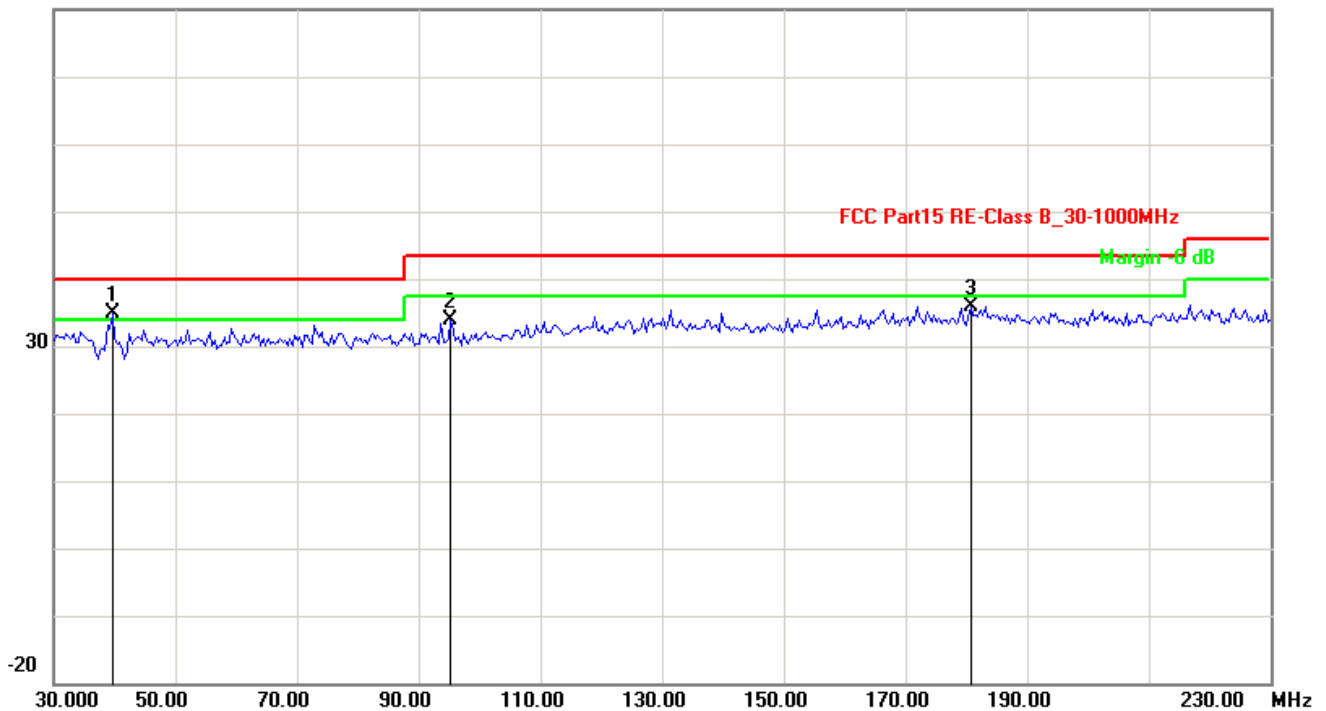
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Channel:	TX -X Position Mode	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	30-230MHz and 230-1000MHz		

EUT	3 Channel 2.4GHz Transmitter W/Built-In Charger
Firm Name	Flying Tian Electronic(Shanghai)Co.,Ltd
Operating Condition	4xStandard AA Batteries
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	7 Jun~10 Aug 2011
Operator	Peter
MODEL NO	EFLRT324

80.0 dBuV/m



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	39.6192	5.73	29.26	34.99	40.00	-5.01	QP
2	95.3307	5.01	28.91	33.92	43.50	-9.58	QP
3	180.7014	7.45	28.50	35.95	43.50	-7.55	QP

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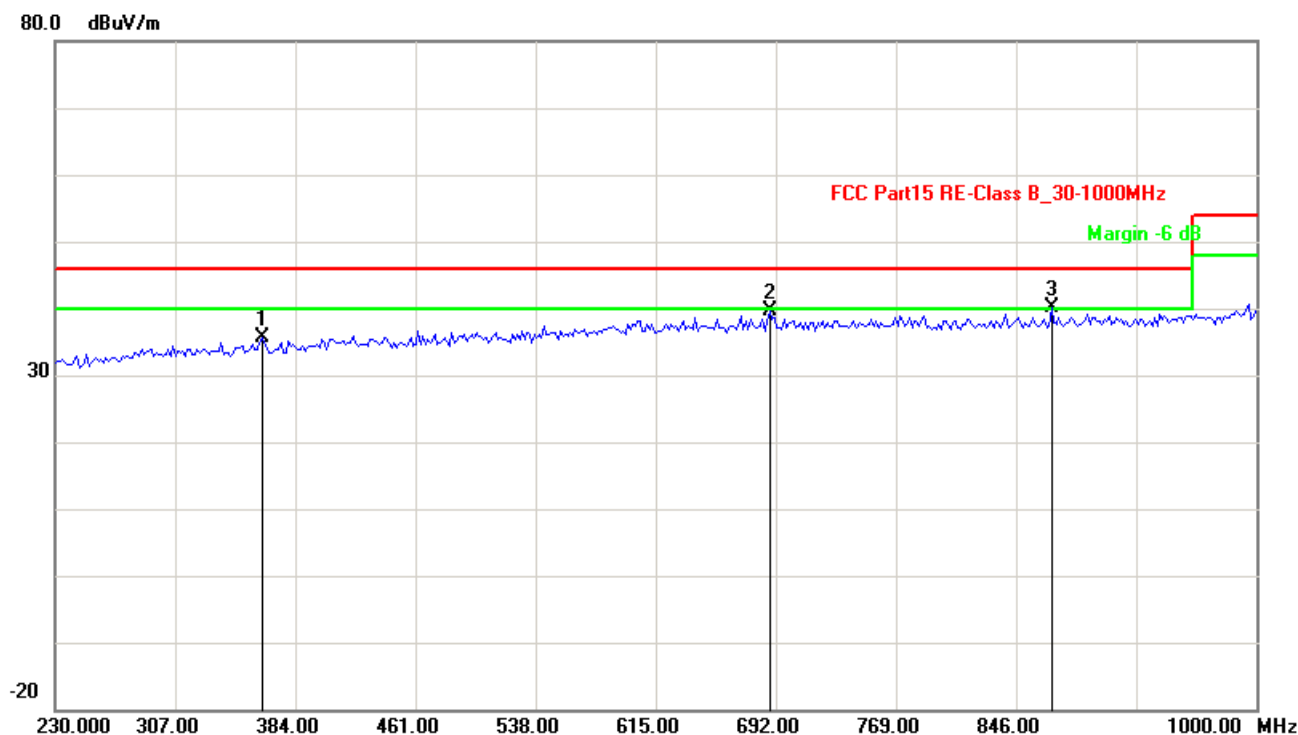
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	362.7054	7.20	28.35	35.55	46.00	-10.45	QP
2	688.2966	10.26	29.39	39.65	46.00	-6.35	QP
3	868.8377	10.44	29.72	40.16	46.00	-5.84	QP

Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss
3. Margin=Level- Limit.

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Channel:	TX -X Position Mode Low 2403MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	1G-40GHz		

EUT	3 Channel 2.4GHz Transmitter W/Built-In Charger
Firm Name	Flying Tian Electronic(Shanghai)Co.,Ltd
Operating Condition	4xStandard AA Batteries
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	7 Jun~10 Aug 2011
Operator	Peter
MODEL NO	EFLRT324

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2403.213	16.97	75.04	92.01	114.00	-21.99	peak
2	2403.213	16.97	64.01	80.98	94.00	-13.02	AVG
3	2873.747	19.82	28.85	48.67	74.00	-25.33	peak
4	5056.112	23.43	26.34	49.77	74.00	-24.23	peak
5	5342.685	23.86	18.05	41.91	54.00	-12.09	AVG
6	9134.269	27.43	17.14	44.57	54.00	-9.43	AVG
7	10192.385	29.10	18.53	47.63	54.00	-6.37	AVG
8	11669.339	29.59	17.41	47.00	54.00	-7.00	AVG

Remark: Other frequency mini margin all >10 dB of Limit.

- Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss
3.Margin= Level- Limit.

Channel:	TX -X Position Mode High 2479MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	1G-40GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2479.103	17.36	74.38	91.74	114.00	-22.26	peak
2	2479.103	17.36	62.91	80.27	94.00	-13.73	AVG
3	2609.218	18.68	30.25	48.93	74.00	-25.07	peak
4	2895.792	19.91	29.96	49.87	74.00	-24.13	peak
5	4460.922	22.19	26.72	48.91	74.00	-25.09	peak
6	6004.008	24.83	19.06	43.89	54.00	-10.11	AVG
7	9993.988	29.28	16.85	46.13	54.00	-7.87	AVG
8	11669.339	29.59	18.13	47.72	54.00	-6.28	AVG

Remark: Other frequency mini margin all >10 dB of Limit

- Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss
3.Margin= Level- Limit.

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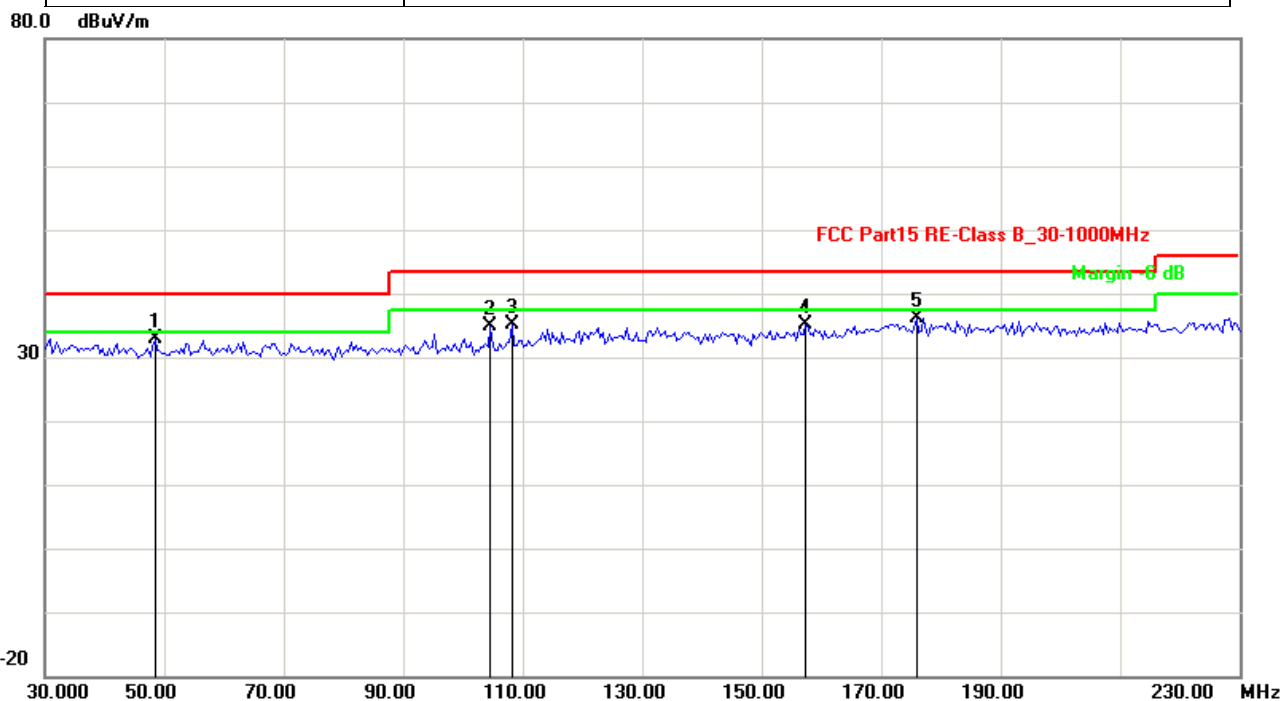
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Channel:	RX Normal Link Mode	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	30-230MHz and 230-1000MHz		

EUT	3 Channel 2.4GHz Transmitter W/Built-In Charger
Firm Name	Flying Tian Electronic(Shanghai)Co.,Ltd
Operating Condition	4xStandard AA Batteries
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	7 Jun~10 Aug 2011
Operator	Peter
MODEL NO	EFLRT324



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	48.4369	5.33	27.64	32.97	40.00	-7.03	QP
2	104.5491	5.42	29.52	34.94	43.50	-8.56	QP
3	108.1563	5.64	29.40	35.04	43.50	-8.46	QP
4	157.4549	6.57	28.46	35.03	43.50	-8.47	QP
5	175.8918	7.43	28.74	36.17	43.50	-7.33	QP

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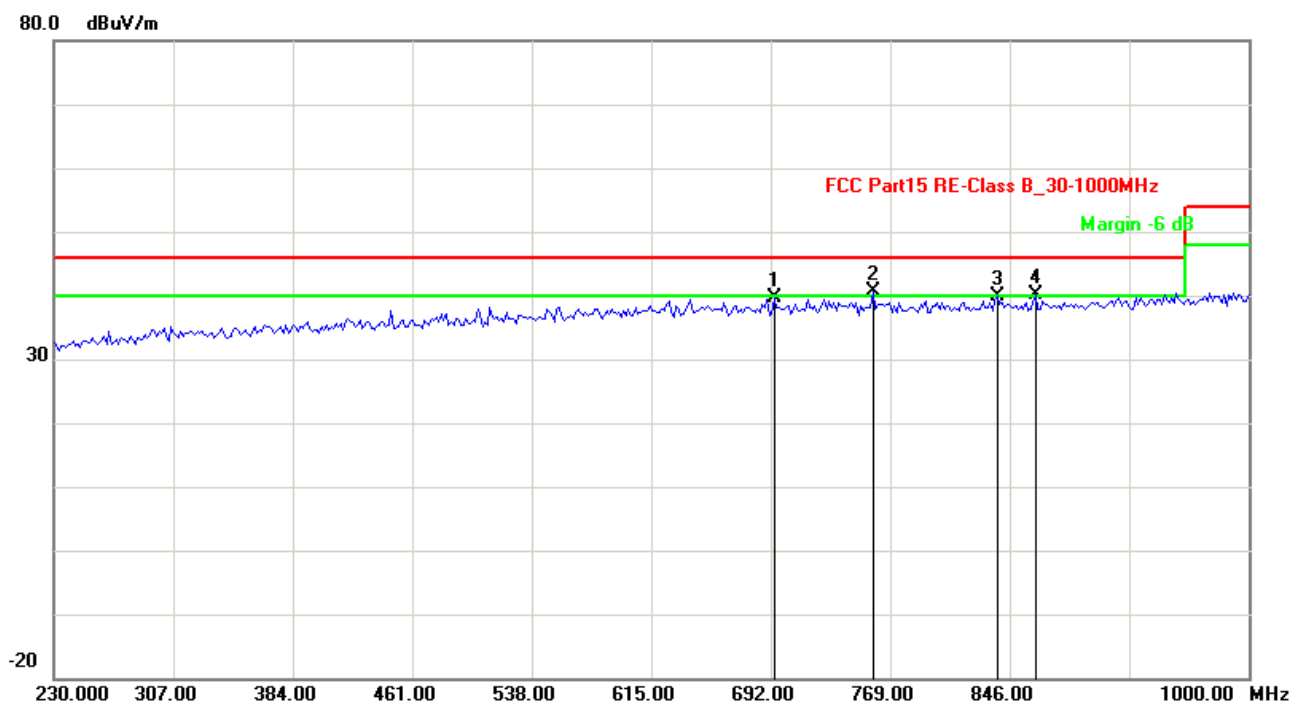
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	694.4689	10.31	29.32	39.63	46.00	-6.37	QP
2	757.7355	10.25	30.42	40.67	46.00	-5.33	QP
3	837.9760	10.20	29.72	39.92	46.00	-6.08	QP
4	862.6653	10.38	29.65	40.03	46.00	-5.97	QP

Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss
3. Margin=Level-Limit.

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Channel:	RX Normal Link Mode I	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	1GHz-40GHz		

EUT	3 Channel 2.4GHz Transmitter W/Built-In Charger
Firm Name	Flying Tian Electronic(Shanghai)Co.,Ltd
Operating Condition	4xStandard AA Batteries
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	7 Jun~10 Aug 2011
Operator	Peter
MODEL NO	EFLRT324

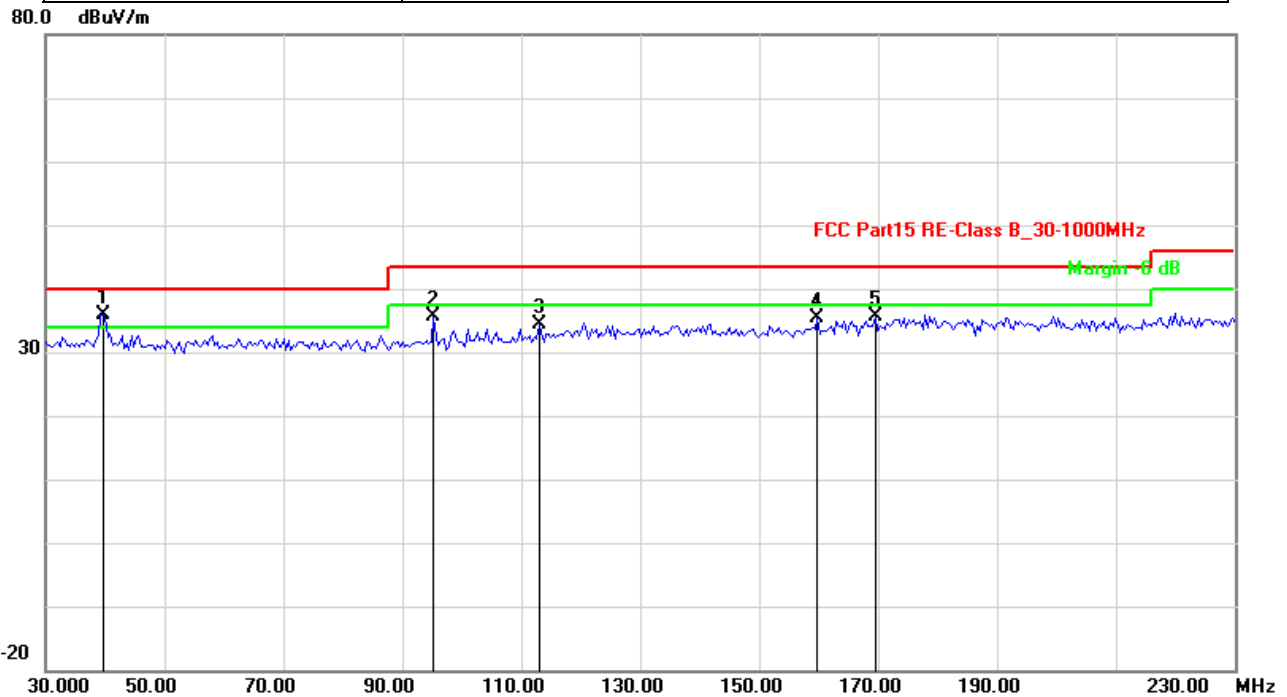
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2623.246	18.74	23.13	41.87	54.00	-12.13	AVG
2	4535.070	22.35	17.94	40.29	54.00	-13.71	AVG
3	5599.198	24.24	19.39	43.63	54.00	-10.37	AVG
4	8142.285	26.91	18.36	45.27	54.00	-8.73	AVG
5	8809.619	27.09	17.96	45.05	54.00	-8.95	AVG
6	9819.639	28.90	19.45	48.35	54.00	-5.65	AVG
Remark: Other frequency mini margin all >10 dB of Limit							

Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss
3. Margin=Level-Limit.



Channel:	RX Normal Link Mode	Result:	■ - passed □ - not passed
Test point:	Vertical		
Frequency range:	30-230MHz and 230-1000MHz		

EUT	3 Channel 2.4GHz Transmitter W/Built-In Charger
Firm Name	Flying Tian Electronic(Shanghai)Co.,Ltd
Operating Condition	4xStandard AA Batteries
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	7 Jun~10 Aug 2011
Operator	Peter
MODEL NO	EFLRT324



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	39.6192	5.73	30.09	35.82	40.00	-4.18	QP
2	95.3307	5.01	30.58	35.59	43.50	-7.91	QP
3	112.9659	5.97	28.45	34.42	43.50	-9.08	QP
4	159.8597	6.65	28.68	35.33	43.50	-8.17	QP
5	169.4790	7.36	28.19	35.55	43.50	-7.95	QP

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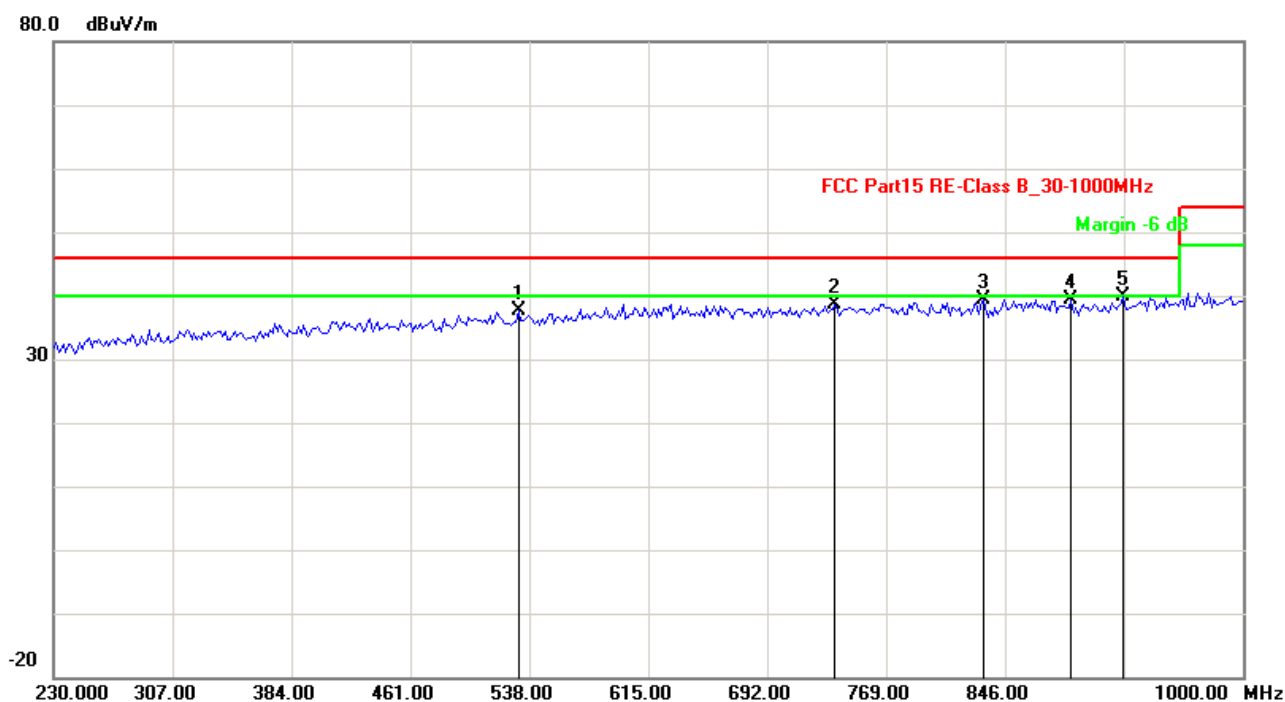
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	530.9018	8.71	28.81	37.52	46.00	-8.48	QP
2	736.1323	10.25	28.35	38.60	46.00	-7.40	QP
3	831.8036	10.18	29.19	39.37	46.00	-6.63	QP
4	888.8978	10.50	28.92	39.42	46.00	-6.58	QP
5	922.8457	10.50	29.27	39.77	46.00	-6.23	QP

Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss
3. Margin=Level-Limit.

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Channel:	RX Normal Link Mode	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	1GHz-40GHz		

EUT	3 Channel 2.4GHz Transmitter W/Built-In Charger
Firm Name	Flying Tian Electronic(Shanghai)Co.,Ltd
Operating Condition	4xStandard AA Batteries
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	7 Jun~10 Aug 2011
Operator	Peter
MODEL NO	EFLRT324

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2893.788	19.90	21.01	40.91	54.00	-13.09	AVG
2	4480.962	22.23	18.67	40.90	54.00	-13.10	AVG
3	5959.920	24.77	20.77	45.54	54.00	-8.46	AVG
4	6591.182	25.03	22.77	47.80	54.00	-6.20	AVG
5	7583.166	26.16	18.59	44.75	54.00	-9.25	AVG
6	8232.465	26.93	20.21	47.14	54.00	-6.86	AVG
7	8791.583	27.08	19.28	46.36	54.00	-7.64	AVG
Remark: Other frequency mini margin all >10 dB of Limit							

- Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss
3. Margin=Level-Limit.



8. Band Edge Compliance test

8.1. Test Equipment

Band Edge Compliance test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2010/12
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2010/12
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2010/12

8.2. Test Information

EUT:	3 Channel 2.4GHz Transmitter W/Built-In Charger
M/N:	EFLRT324
Firm Name:	Flying Tian Electronic(Shanghai) Co.,Ltd
Power supply:	4xStandard AA Batteries
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test standard:	FCC PART 15C: 15.249, RSS-210 Annex 8
Test mode:	Transmitting, Hopping on
Test Frequency:	Low: 2403MHz High: 2479MHz ,
Test Date:	7 Jue~10 Aug 2011
Test By:	Peter

8.3. Test procedure

- 1、 The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2、 Max hold the trace of the setp 1,and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.



8.4. Test Results

PASSED.

The EUT operates at hopping-off test mode. The lowest and highest channels are tested to verify the band edge emissions.

Test Mode	Channel Marked Frequency	Test Result Highest Emission (dBuv/m)			
		Horizontal		Vertical	
		Peak	Average	Peak	Average
Low Channel	2390MHz	55.64	36.76	52.16	36.76
	2400MHz	62.22	39.26	64.29	38.19
High Channel	2483.5MHz	63.65	38.62	60.93	38.49
	2500MHz	51.28	38.46	50.80	38.48

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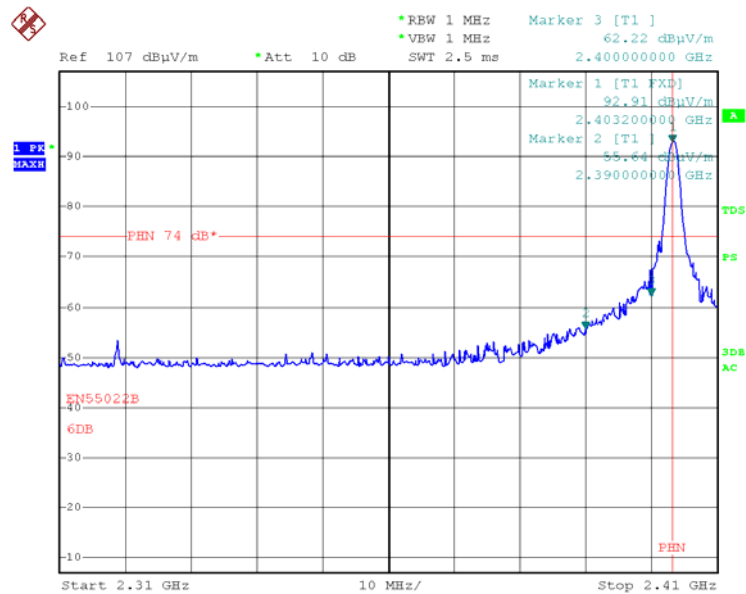
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Band Edges(CH Low)
Detector mode:Peak

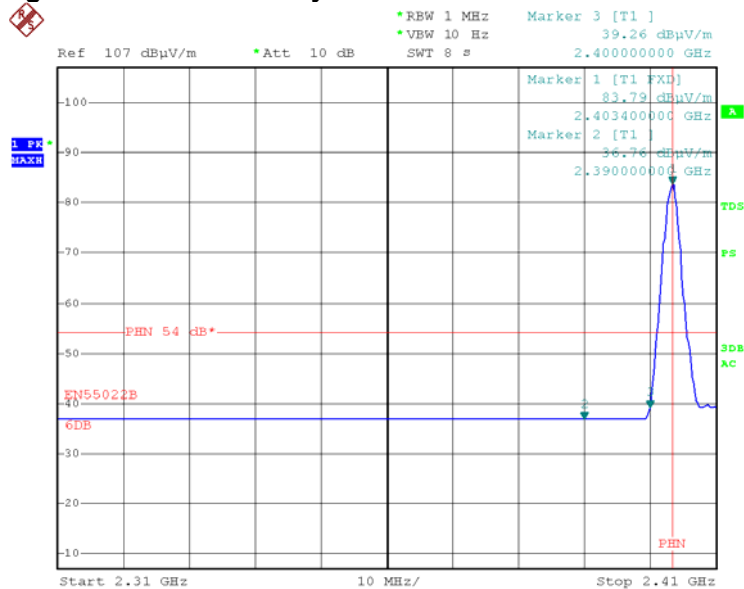
Polarity:Horizontal



Date: 7.JUN.2011 16:10:26

Band Edges(CH Low)
Detector mode:Average

Polarity:Horizontal



Date: 7.JUN.2011 16:40:28

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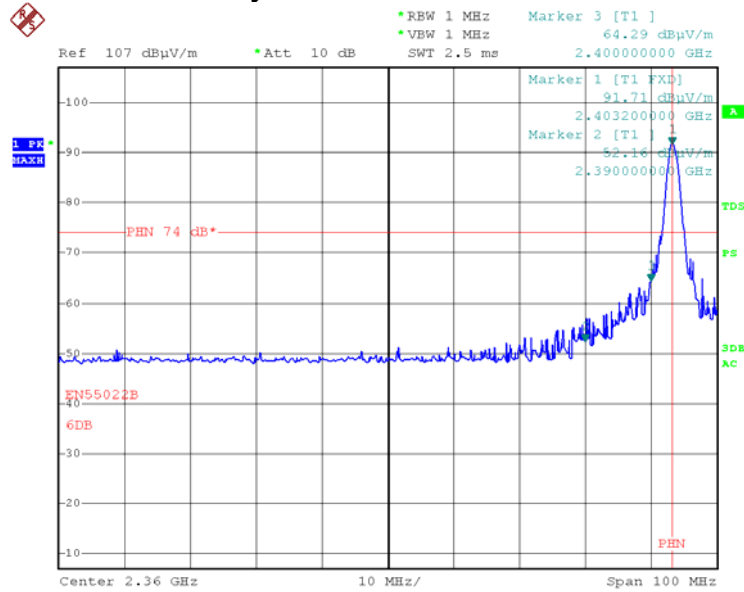
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Band Edges(CH Low)
Detector mode:Peak

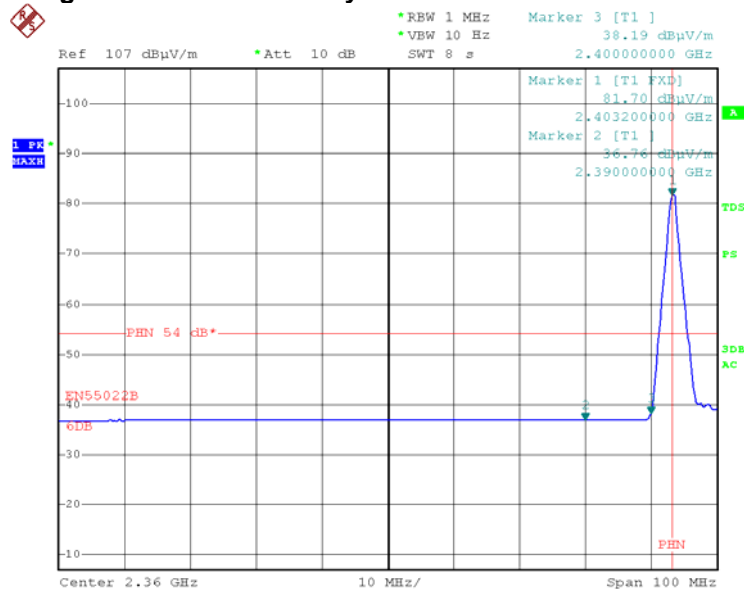
Polarity:Vertical



Date: 7.JUN.2011 16:45:18

Band Edges(CH Low)
Detector mode:Average

Polarity:Vertical



Date: 7.JUN.2011 16:46:50

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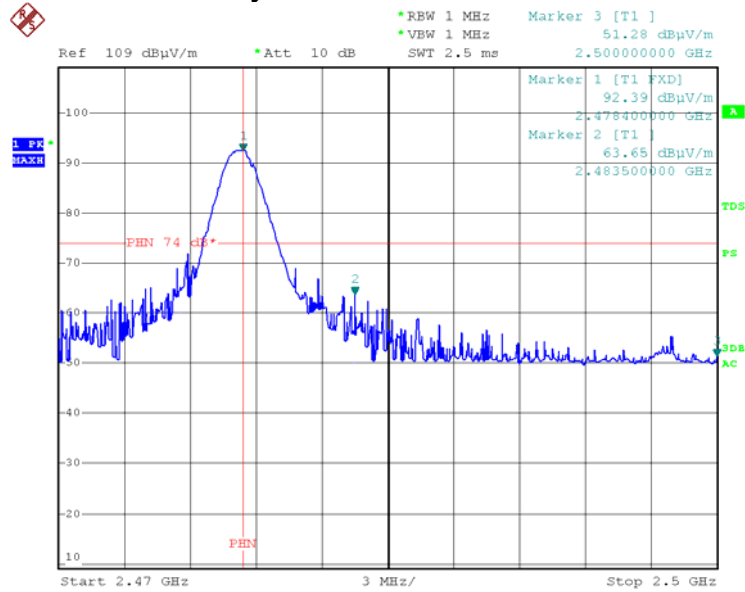
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Band Edges(CH High)
Detector mode:Peak

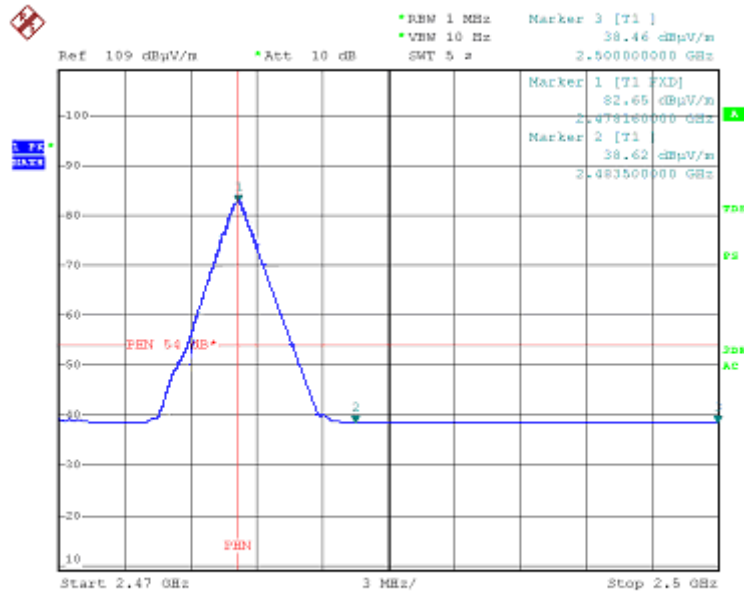
Polarity:Horizontal



Date: 7.JUN.2011 16:55:42

Band Edges(CH High)
Detector mode:Average

Polarity:Horizontal



Date: 7.JUN.2011 16:58:37

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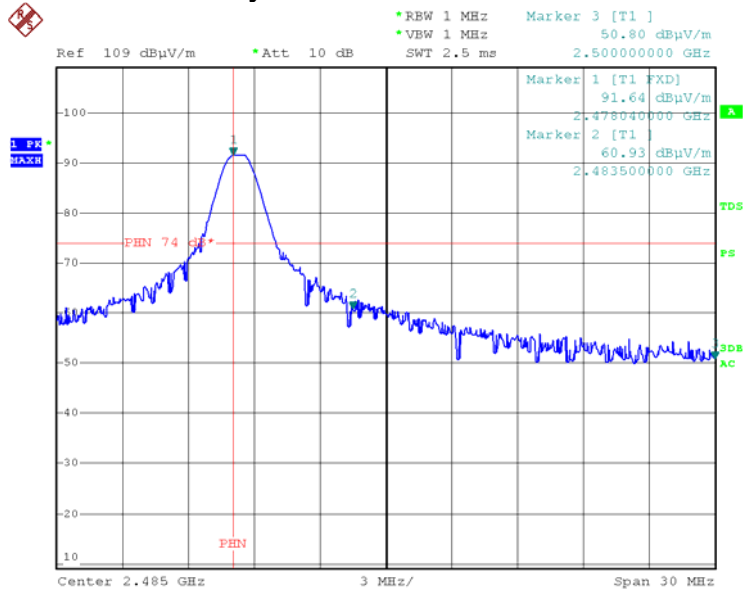
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Band Edges(CH High)
Detector mode:Peak

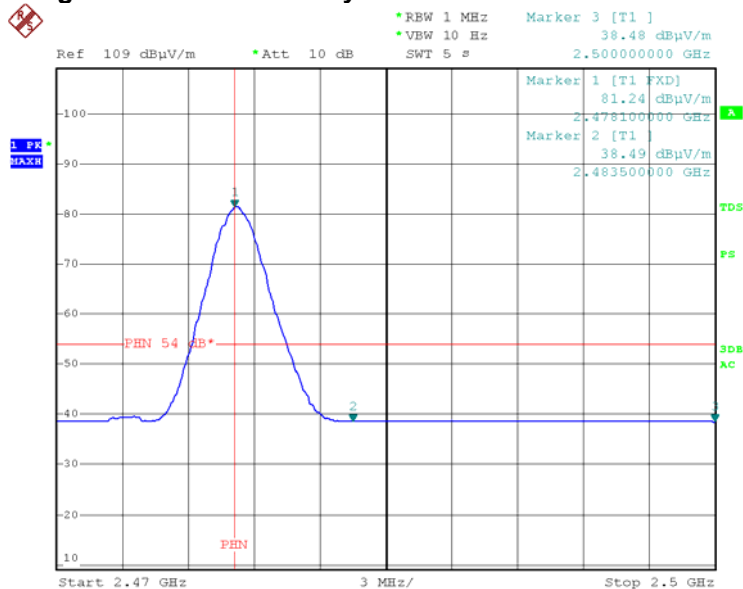
Polarity:Vertical



Date: 7.JUN.2011 17:02:51

Band Edges(CH High)
Detector mode:Average

Polarity:Vertical



Date: 7.JUN.2011 17:05:41

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9. 99% bandwidth

9.1 Test procedure

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used given that a peak or peak hold may produce a wider bandwidth than actual. The sweep time is coupled.

9.2. Test Equipment

Band Edge Compliance test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2010/12
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2010/12
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2010/12

9.3. Test Information

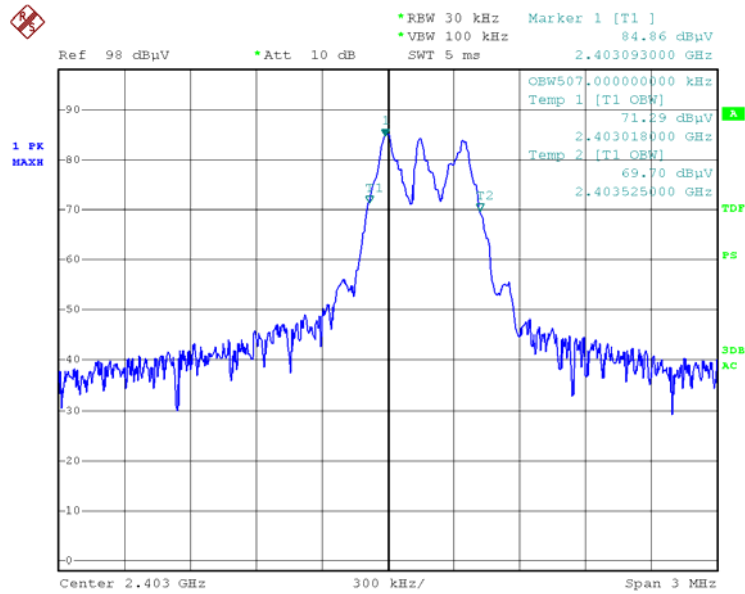
EUT:	3 Channel 2.4GHz Transmitter W/Built-In Charger
M/N:	EFLRT324
Firm Name:	Flying Tian Electronic(Shanghai) Co.,Ltd
Power supply:	4xStandard AA Batteries
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	RSS-210 Annex 8,RSS-Gen 4.6.1
Test mode:	Transmitting, Hopping on
Test Frequency:	Low: 2403MHz High: 2479MHz ,
Test Date:	7 Jue~10 Aug 2011
Test By:	Peter

9.4. Test Results

PASSED.

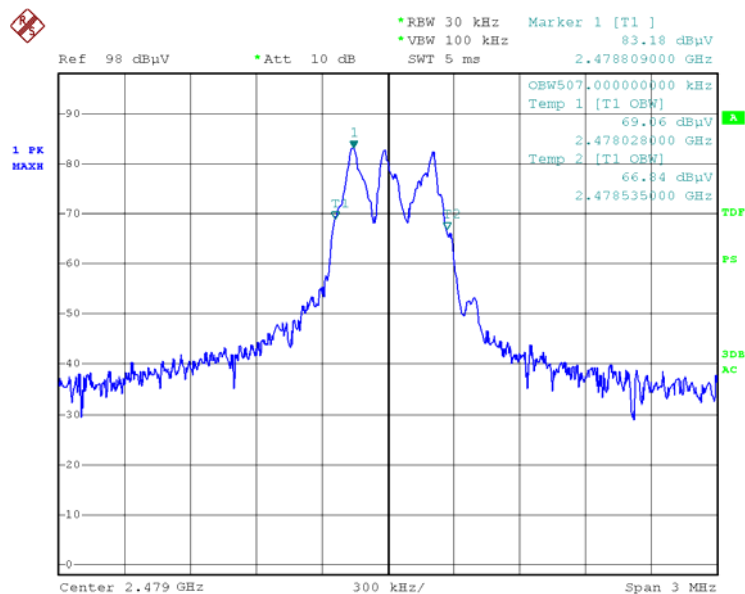
Channel	Frequency (MHz)	Bandwidth (MHz)
Low	2403	0.507
High	2479	0.507

99% Bandwidth 2403 MHz



Date: 10.AUG.2011 14:11:43

99% Bandwidth 2479 MHz



Date: 10.AUG.2011 14:07:28

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10.Deviation to test specifications

[NONE]

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