



**CENTRE OF TESTING SERVICE  
INTERNATIONAL**

**OPERATE ACCORDING TO ISO/IEC 17025**

# **FCC ID TEST REPORT**

**TEST REPORT NUMBER : CNB3130514-00747-E**



**CENTRE OF TESTING SERVICE CO., LTD.**

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



<b>TEST REPORT For FCC ID</b>	
<b>47 CFR PART 15 OCT, 2012</b>	
<b>Report Reference No.</b> .....	CNB3130514-00747-E
<b>Date of issue</b> .....	13 June 2013
<b>Testing Laboratory Name</b> .....	<b>CENTRE OF TESTING SERVICE CO., LTD.</b>
<b>Address</b> .....	Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.
<b>Testing location/ procedure</b> .....	Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
<b>Applicant's name</b> .....	XIANYANG HUACHAO WEIGHING APPARATUS CO. , LTD.
<b>Address</b> .....	DIZHANG TOWN, WEICHENG DISTRICT, XIANYANG CITY, SHAAN XI PROVINCE, CHINA.
<b>Test specification</b> .....	
<b>Standard</b> .....	<b>47 CFR PART 15 OCT, 2012</b>
<b>Test Report Form No.</b> .....	CTSEMC-1.0
<b>TRF Originator</b> .....	CENTRE OF TESTING SERVICE CO., LTD.
<b>Master TRF</b> .....	Dated 2009-01
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<b>Test item description</b> .....	BLUETOOTH SCALE
<b>Trade Mark</b> .....	/
<b>Manufacturer</b> .....	XIANYANG HUACHAO WEIGHING APPARATUS CO. , LTD.
<b>Model/Type reference</b> .....	RSP-0280
<b>Ratings</b> .....	DC 6.0V by battery
<b>Operating Frequency</b> .....	2402MMHz ~2480MHz
<b>Result</b> .....	<b>PASSED</b>

**Compiled by:**

Kate zhang / File administrators

**Supervised by:**

Duke yang / Technique principal

**Approved by:**

Vincent yao / Manager

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## FCC ID -- T E S T R E P O R T

<b>Test Report No. :</b> CNB3130514-00747-E	<u>13 June 2013</u> Date of issue
---	--------------------------------------

Type / Model.....	RSP-0280
EUT.....	BLUETOOTH SCALE
<b>Applicant.....</b>	XIANYANG HUACHAO WEIGHING APPARATUS CO. , LTD.
Address.....	DIZHANG TOWN, WEICHENG DISTRICT, XIANYANG CITY, SHAAN XI PROVINCE, CHINA.
Telephone.....	+86-29-33633168
Fax.....	+86-29-33633158
Contact.....	Jason
<b>Manufacturer.....</b>	XIANYANG HUACHAO WEIGHING APPARATUS CO. , LTD.
Address.....	DIZHANG TOWN, WEICHENG DISTRICT, XIANYANG CITY, SHAAN XI PROVINCE, CHINA.
Telephone.....	+86-29-33633168
Fax.....	+86-29-33633158
Contact.....	Jason
<b>Test report holder.....</b>	XIANYANG HUACHAO WEIGHING APPARATUS CO. , LTD.
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Telephone.....	+86-29-33633168
Fax.....	+86-29-33633158
Contact.....	Jason

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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10.DEVIATION TO TEST SPECIFICATIONS .....33

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## 1. TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2012
- ANSI C63.4-2009

## 2. SUMMARY

### 2.1 GENERAL REMARKS

Date of receipt of test sample	14 May 2013
Testing commenced on	14 ~29 May 2013
Testing concluded on	13 June 2013

### 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 1.
- ☐ - **does not** fulfil the FCC requirements cited on page 1.

## 3. EQUIPMENT UNDER TEST

### 3.1 Power supply system utilised

Power supply voltage : ■ DC 6V By Battery

### 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

Operation mode 1: TX-X Position Low (2402 MHz) , TX-X Position Middle (2440MHz) ,  
TX-X Position High (2480MHz)

Note: TX -X position 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	:	BLUETOOTH SCALE
Model Number	:	RSP-0280
Operation frequency	:	2402~ 2480 MHz ISM Band
Radio Technology	:	DSSS (Bluetooth 4.0)
Modulation Technology	:	DSSS (GFSK for 1Mbps) modulation
Antenna	:	Print antenna, met requirement of FCC 15.203
Antenna Gain	:	0dBi

#### 3.4.2. Tested Supporting System Details

N/A

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## 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 21,2012.

### 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.



## 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)
	1GHz~26.5GHz	$\pm 3.54\text{dB}$	(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 : 15.207 ANSI C63.4-2009	N/A
Radiated Emission Test	FCC Part 15 C: 15.249 FCC Part 15 : 109 ANSI C63.4-2009	PASSED
20 dB Bandwidth test	FCC Part 15 C: 15.249 ANSI C63.4-2009	PASSED
Band Edge Compliance Test	FCC Part 15 C: 15.249 ANSI C63.4-2009	PASSED
N/A is an abbreviation for Not Applicable.		

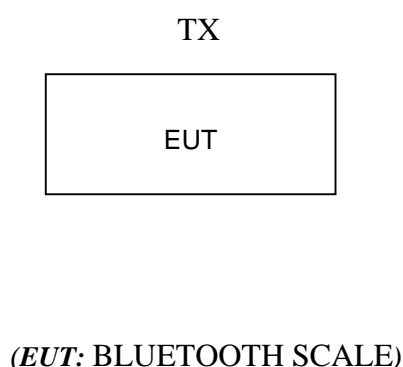
## 6. Radiated disturbance (electric field)

### 6.1. Test Equipment

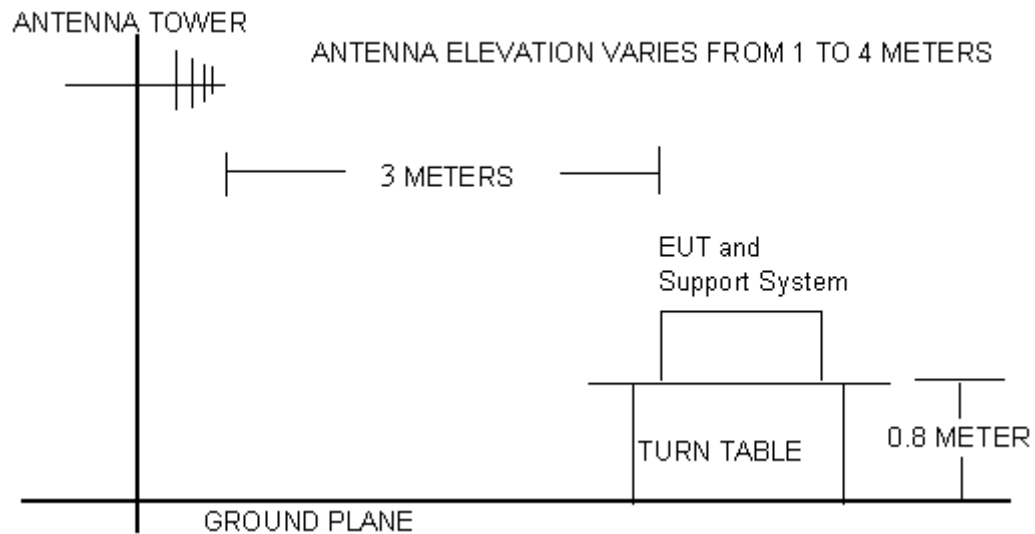
6.1					
Radiated disturbance (Electric field)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2012/11
2	EMI Test Receiver	ROHDE & SCHWARZ	ESVS 10	842885/001	2012/11
3	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2012/11
4	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2012/11
5	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2012/11
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2012/11
7	Pre-Amplifier	EMC	EMC330	980113	2012/11
8	Pre-Amplifier	EMC	EMC012645	980114	2012/11
9	EMI Test Software	Farad	EZ-EMC	N/A	N/A

### 6.2. Block Diagram of Test Setup

#### 7.2.1 Block Diagram of connection between EUT and simulators



### 6.2.2 Anechoic Chamber Setup Diagram



### 6.3. Radiated Emission Limit :

**Standard: FCC 15.249 , FCC 15.209**

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
0.009 ~ 0.490	300	2400/F(KHz)	----
0.490 ~ 1.705	30	24000/F(KHz)	----
1.705 ~ 30	30	30	----
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.

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#### 6.4. 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

#### 6.5. 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

EUT	BLUETOOTH SCALE
Operating Condition	DC 6.0V for TX
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	14~29 May 2013
Operator	Duke
MODEL NO	RSP-0280

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
Remark: Other frequency no specific emission form the EUT (Margin > 10dB form the applicable Limit)							

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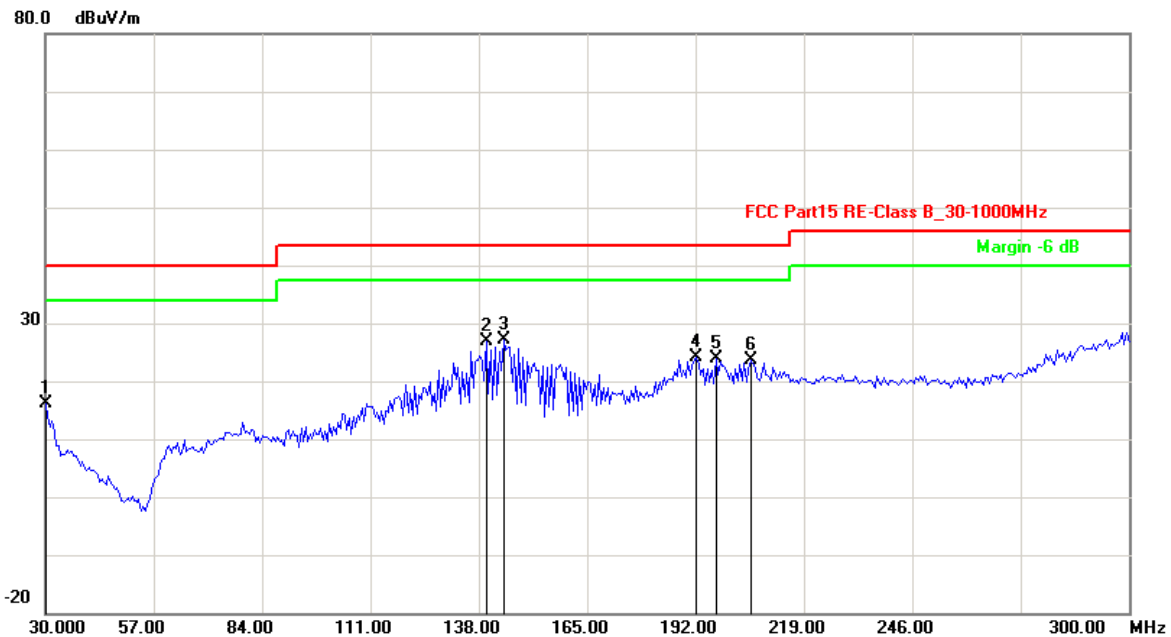
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EUT	BLUETOOTH SCALE
Firm Name	XIANYANG HUACHAO WEIGHING APPARATUS CO. , LTD.
Operating Condition	DC 6.0V for TX
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	14~29 May 2013
Operator	Duke
MODEL NO	RSP-0280

Channel:	Low Channel	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	30MHz~26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2402.00	2.81	83.94	86.75	114.00	-27.25	Peak
2	2402.00	2.81	81.25	84.06	94.00	-9.94	AVG



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	30.0000	-24.45	40.51	16.06	40.00	-23.94	QP
2	139.8397	-16.39	43.20	26.81	43.50	-16.69	QP
3	144.1683	-16.78	43.91	27.13	43.50	-16.37	QP
4	192.3246	-12.16	36.30	24.14	43.50	-19.36	QP
5	197.1944	-12.48	36.28	23.80	43.50	-19.70	QP
6	205.8517	-12.31	35.88	23.57	43.50	-19.93	QP

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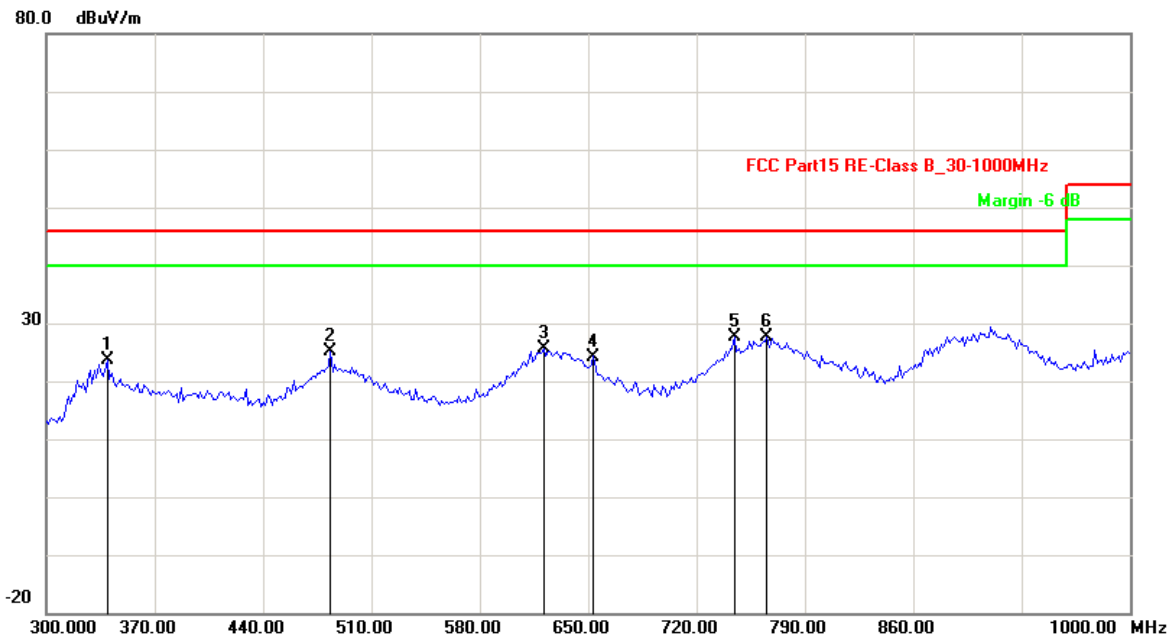
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	339.2786	-13.29	36.86	23.57	46.00	-22.43	QP
2	483.7675	-9.78	34.93	25.15	46.00	-20.85	QP
3	621.2425	-7.10	32.79	25.69	46.00	-20.31	QP
4	653.5070	-9.80	34.05	24.25	46.00	-21.75	QP
5	744.6894	-6.78	34.48	27.70	46.00	-18.30	QP
6	765.7315	-5.62	33.17	27.55	46.00	-18.45	QP

Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	1617.235	-1.33	41.77	40.44	74.00	-33.56	peak
2	1617.235	-1.33	26.69	25.36	54.00	-28.64	AVG
3	2983.968	6.51	42.89	49.40	74.00	-24.60	peak
4	2983.968	6.51	28.07	34.58	54.00	-19.42	AVG
5	3579.158	8.46	41.23	49.69	74.00	-24.31	peak
6	3579.158	8.46	26.70	35.16	54.00	-18.84	AVG
7	4394.790	10.74	39.30	50.04	74.00	-23.96	peak
8	4394.790	10.74	25.47	36.21	54.00	-17.79	AVG
9	5937.876	15.18	40.49	55.67	74.00	-18.33	peak
10	5937.876	15.18	24.84	40.02	54.00	-13.98	AVG
11	7613.227	18.65	38.45	57.10	74.00	-16.90	peak
12	7613.227	18.65	23.20	41.85	54.00	-12.15	AVG

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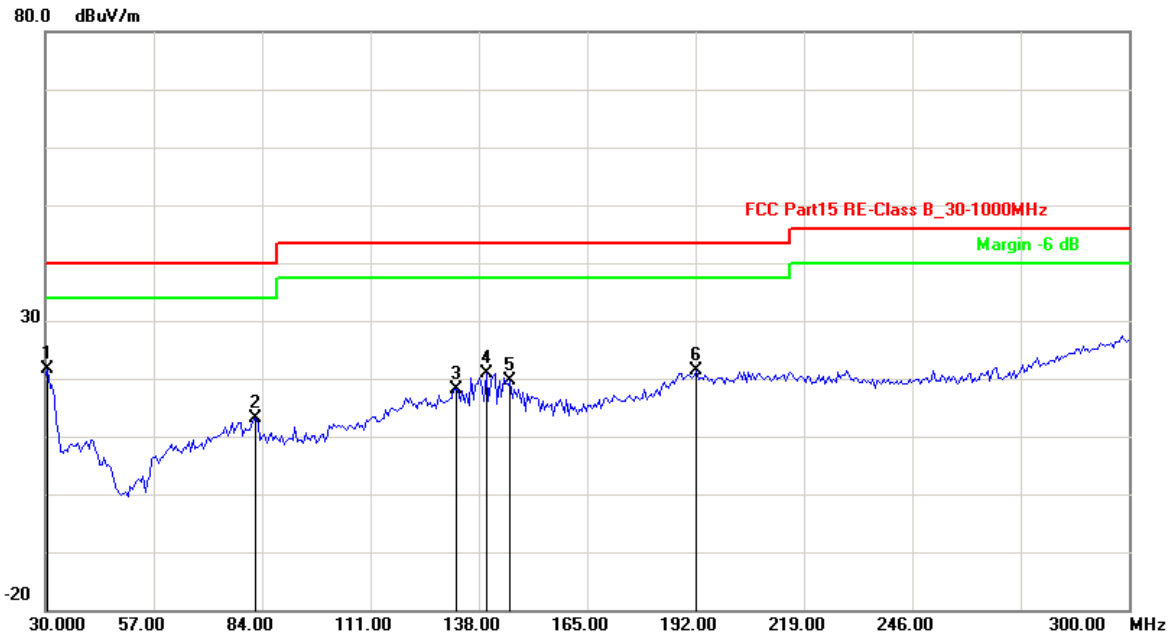
Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

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Channel:	Low Channel	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	30MHz~26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2402.00	2.81	85.63	88.44	114.00	-25.56	Peak
2	2402.00	2.81	83.16	85.97	94.00	-8.03	AVG



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	30.5411	-24.45	46.00	21.55	40.00	-18.45	QP
2	82.4850	-21.96	35.15	13.19	40.00	-26.81	QP
3	132.2645	-16.91	35.01	18.10	43.50	-25.40	QP
4	139.8397	-16.39	37.30	20.91	43.50	-22.59	QP
5	145.7916	-16.94	36.61	19.67	43.50	-23.83	QP
6	192.3246	-12.16	33.49	21.33	43.50	-22.17	QP

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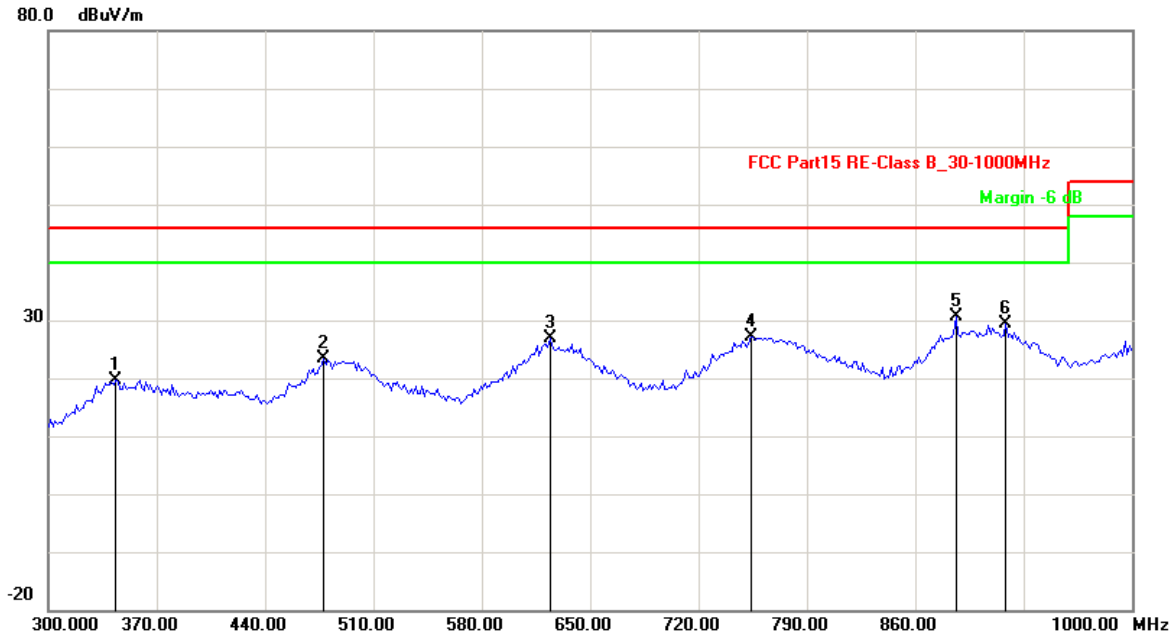
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	343.4870	-13.25	32.89	19.64	46.00	-26.36	QP
2	478.1563	-10.03	33.43	23.40	46.00	-22.60	QP
3	624.0481	-7.18	34.14	26.96	46.00	-19.04	QP
4	754.5090	-5.95	33.15	27.20	46.00	-18.80	QP
5	886.3727	-4.62	35.24	30.62	46.00	-15.38	QP
6	918.6373	-4.48	33.89	29.41	46.00	-16.59	QP

Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	1639.279	-1.32	42.99	41.67	74.00	-32.33	peak
2	1639.279	-1.32	26.68	25.36	54.00	-28.64	AVG
3	3006.012	6.62	43.19	49.81	74.00	-24.19	peak
4	3006.012	6.62	27.96	34.58	54.00	-19.42	AVG
5	3777.555	9.10	40.56	49.66	74.00	-24.34	peak
6	3777.555	9.10	26.52	35.62	54.00	-18.38	AVG
7	3953.908	9.66	40.44	50.10	74.00	-23.90	peak
8	3953.908	9.66	26.62	36.28	54.00	-17.72	AVG
9	5695.391	14.40	39.33	53.73	74.00	-20.27	peak
10	5695.391	14.40	23.18	37.58	54.00	-16.42	AVG
11	6268.537	16.03	41.72	57.75	74.00	-16.25	peak
12	6268.537	16.03	27.19	43.22	54.00	-10.78	AVG

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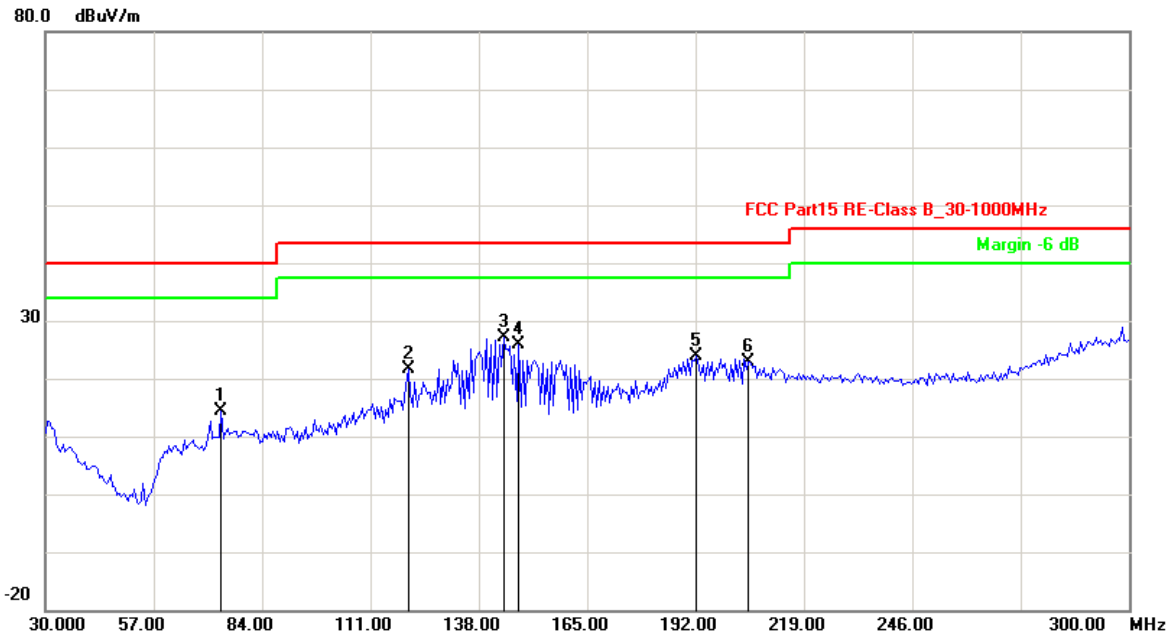
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Channel:	Middle Channel	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	30MHz~26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2440.00	3.21	82.99	86.20	114.00	-27.80	Peak
2	2440.00	3.21	80.86	84.07	94.00	-9.93	AVG



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	73.8277	-21.84	36.14	14.30	40.00	-25.70	QP
2	120.3607	-18.09	39.70	21.61	43.50	-21.89	QP
3	144.1683	-16.78	43.80	27.02	43.50	-16.48	QP
4	147.9559	-17.14	43.03	25.89	43.50	-17.61	QP
5	192.3246	-12.16	36.07	23.91	43.50	-19.59	QP
6	205.3106	-12.34	35.19	22.85	43.50	-20.65	QP

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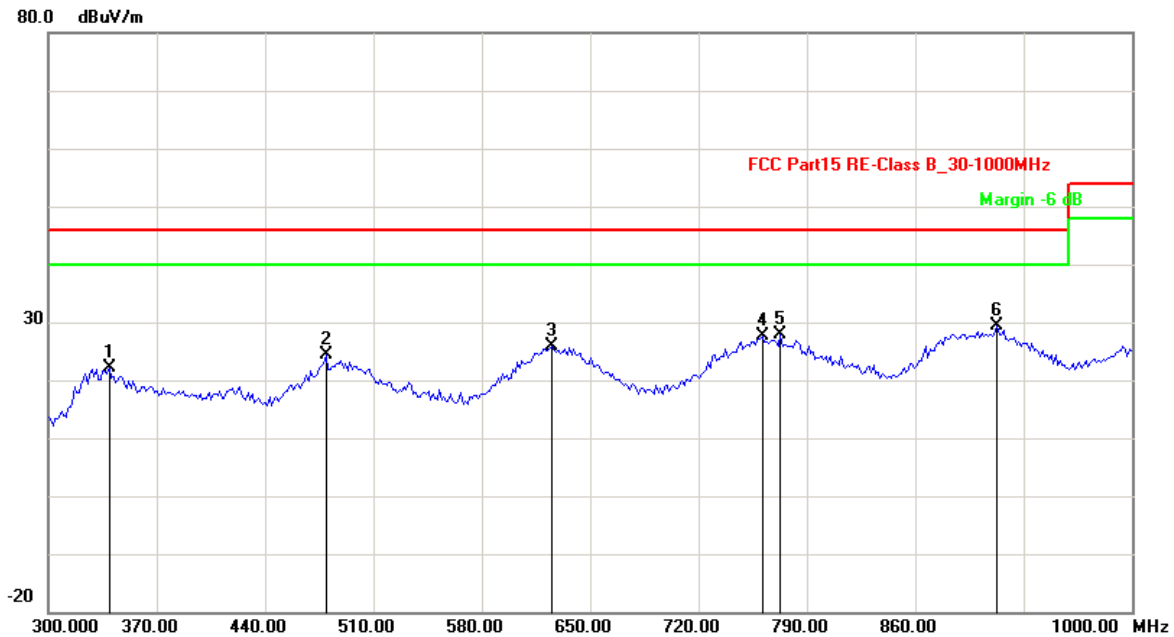
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	339.2786	-13.29	35.38	22.09	46.00	-23.91	QP
2	479.5591	-9.77	34.09	24.32	46.00	-21.68	QP
3	625.4509	-7.22	33.11	25.89	46.00	-20.11	QP
4	761.5230	-5.53	33.06	27.53	46.00	-18.47	QP
5	772.7455	-5.78	33.68	27.90	46.00	-18.10	QP
6	913.0261	-4.31	33.78	29.47	46.00	-16.53	QP

Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	1815.631	-1.23	41.07	39.84	74.00	-34.16	peak
2	1815.631	-1.23	24.82	23.59	54.00	-30.41	AVG
3	3006.012	6.62	41.23	47.85	74.00	-26.15	peak
4	3006.012	6.62	26.07	32.69	54.00	-21.31	AVG
5	3667.335	8.74	40.19	48.93	74.00	-25.07	peak
6	3667.335	8.74	24.67	33.41	54.00	-20.59	AVG
7	4284.569	10.48	38.39	48.87	74.00	-25.13	peak
8	4284.569	10.48	21.64	32.12	54.00	-21.88	AVG
9	5541.082	13.90	37.89	51.79	74.00	-22.21	peak
10	5541.082	13.90	21.88	35.78	54.00	-18.22	AVG
11	7701.403	18.77	36.35	55.12	74.00	-18.88	peak
12	7701.403	18.77	18.08	36.85	54.00	-17.15	AVG

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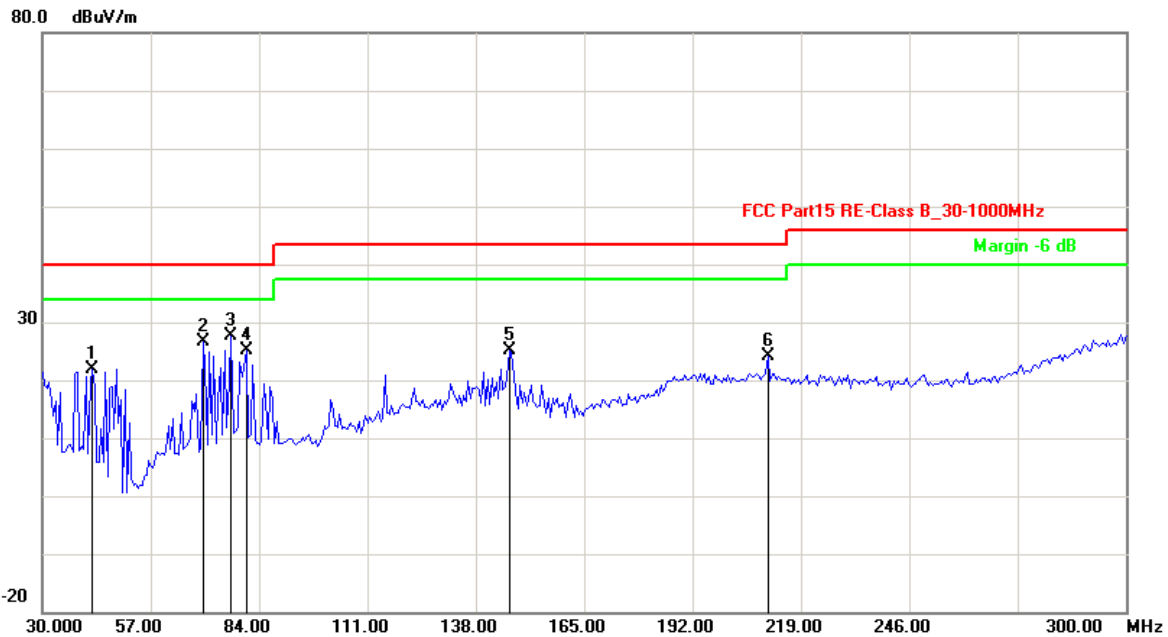
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Channel:	Middle Channel	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	30MHz~26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2440.00	3.21	85.07	88.28	114.00	-25.72	Peak
2	2440.00	3.21	82.29	85.50	94.00	-8.50	AVG



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	42.4449	-27.42	49.35	21.93	40.00	-18.07	QP
2	70.0401	-23.12	49.81	26.69	40.00	-13.31	QP
3	77.0741	-21.43	49.11	27.68	40.00	-12.32	QP
4	80.8617	-21.60	46.77	25.17	40.00	-14.83	QP
5	146.3327	-16.99	42.16	25.17	43.50	-18.33	QP
6	210.7214	-12.09	36.10	24.01	43.50	-19.49	QP

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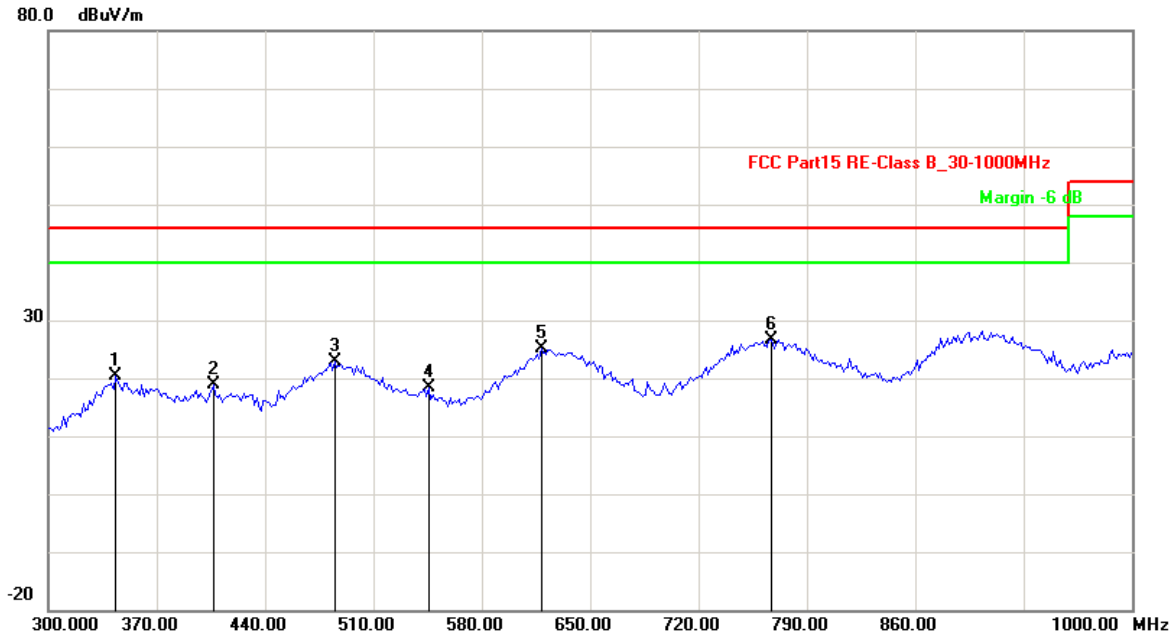
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	343.4870	-13.25	33.70	20.45	46.00	-25.55	QP
2	406.6132	-14.94	33.90	18.96	46.00	-27.04	QP
3	485.1703	-9.81	32.62	22.81	46.00	-23.19	QP
4	545.4910	-14.89	33.27	18.38	46.00	-27.62	QP
5	618.4369	-7.38	32.54	25.16	46.00	-20.84	QP
6	767.1343	-5.65	32.29	26.64	46.00	-19.36	QP

Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	1418.838	-2.09	40.57	38.48	74.00	-35.52	peak
2	1418.838	-2.09	24.45	22.36	54.00	-31.64	AVG
3	1947.896	-1.17	40.32	39.15	74.00	-34.85	peak
4	1947.896	-1.17	24.86	23.69	54.00	-30.31	AVG
5	3028.056	6.69	40.91	47.60	74.00	-26.40	peak
6	3028.056	6.69	25.89	32.58	54.00	-21.42	AVG
7	3380.762	7.82	39.93	47.75	74.00	-26.25	peak
8	3380.762	7.82	25.19	33.01	54.00	-20.99	AVG
9	4064.128	9.96	38.17	48.13	74.00	-25.87	peak
10	4064.128	9.96	23.90	33.86	54.00	-20.14	AVG
11	6114.229	15.66	38.49	54.15	74.00	-19.85	peak
12	6114.229	15.66	23.01	38.67	54.00	-15.33	AVG

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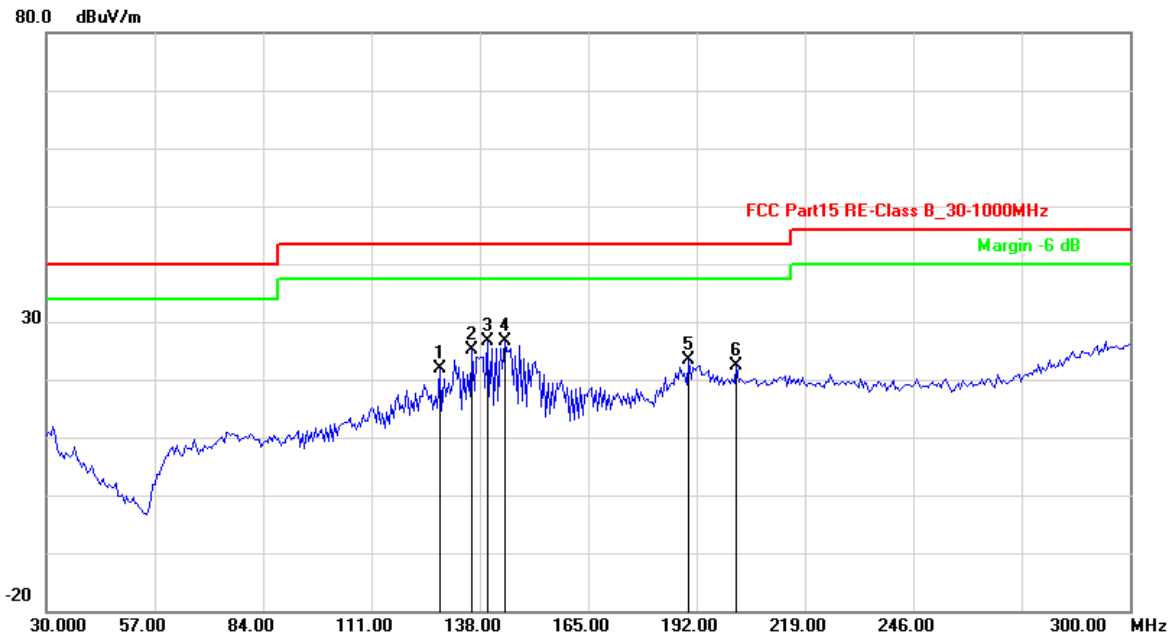
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Channel:	High Channel	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	30MHz~26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2480.00	3.57	83.29	86.86	114.00	-27.14	Peak
2	2480.00	3.57	80.59	84.16	94.00	-9.84	AVG



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	127.9359	-17.28	39.09	21.81	43.50	-21.69	QP
2	136.0521	-16.65	41.76	25.11	43.50	-18.39	QP
3	139.8397	-16.39	43.09	26.70	43.50	-16.80	QP
4	144.1683	-16.78	43.48	26.70	43.50	-16.80	QP
5	190.1603	-12.02	35.45	23.43	43.50	-20.07	QP
6	202.0641	-12.54	34.90	22.36	43.50	-21.14	QP

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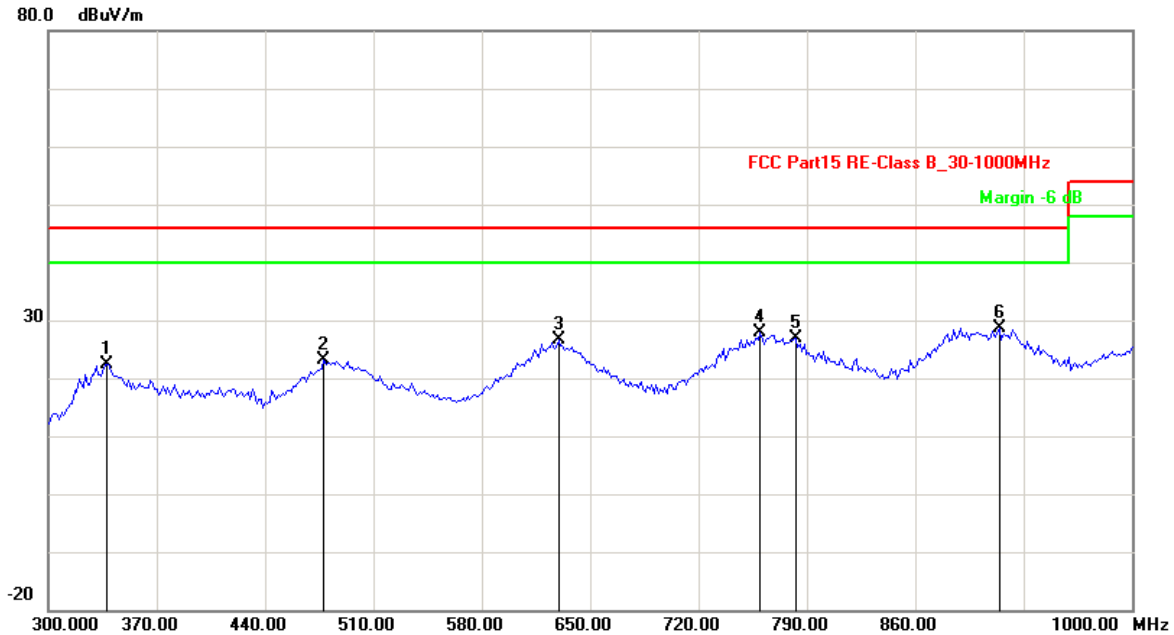
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	337.8758	-13.63	35.98	22.35	46.00	-23.65	QP
2	478.1563	-10.03	33.08	23.05	46.00	-22.95	QP
3	629.6593	-7.33	34.02	26.69	46.00	-19.31	QP
4	760.1202	-5.49	33.33	27.84	46.00	-18.16	QP
5	782.5651	-6.28	33.21	26.93	46.00	-19.07	QP
6	914.4289	-4.35	33.09	28.74	46.00	-17.26	QP

Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	1727.455	-1.28	42.27	40.99	74.00	-33.01	peak
2	1727.455	-1.28	26.74	25.46	54.00	-28.54	AVG
3	3006.012	6.62	42.58	49.20	74.00	-24.80	peak
4	3006.012	6.62	27.63	34.25	54.00	-19.75	AVG
5	3953.908	9.66	40.11	49.77	74.00	-24.23	peak
6	3953.908	9.66	25.55	35.21	54.00	-18.79	AVG
7	5100.200	12.48	38.96	51.44	74.00	-22.56	peak
8	5100.200	12.48	24.44	36.92	54.00	-17.08	AVG
9	5607.214	14.12	39.51	53.63	74.00	-20.37	peak
10	5607.214	14.12	24.53	38.65	54.00	-15.35	AVG
11	7569.138	18.59	37.79	56.38	74.00	-17.62	peak
12	7569.138	18.59	21.09	39.68	54.00	-14.32	AVG

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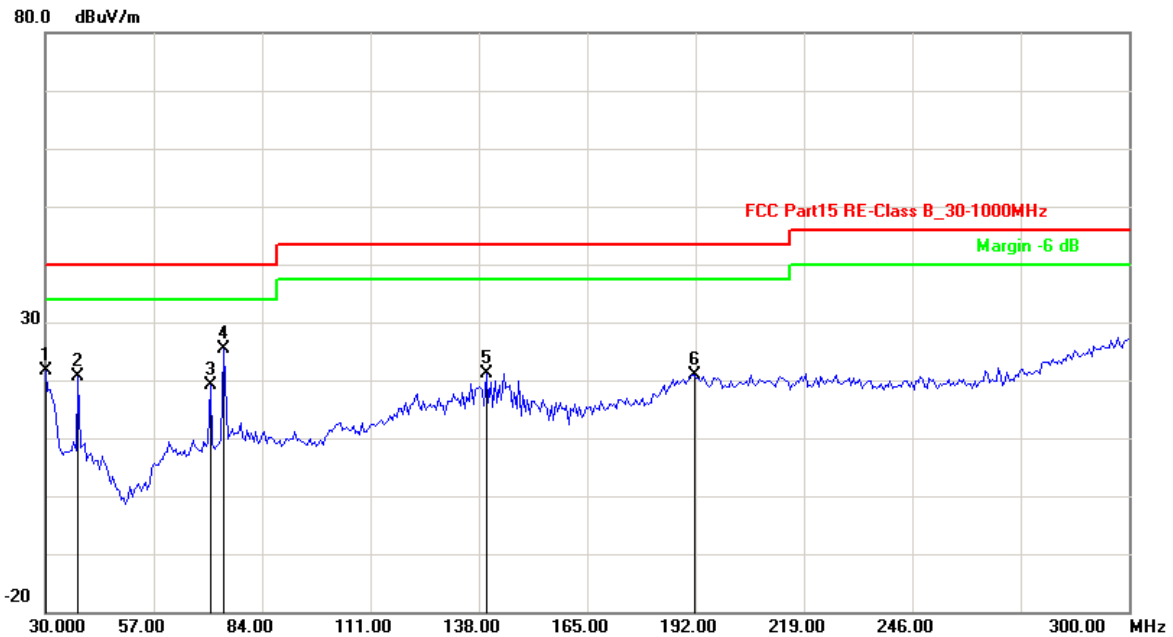
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Channel:	High Channel	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	30MHz~26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2402.00	3.57	85.16	88.73	114.00	-25.28	Peak
2	2402.00	3.57	82.13	85.70	94.00	-6.30	AVG



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	30.0000	-24.45	46.12	21.67	40.00	-18.33	QP
2	38.1162	-24.88	45.51	20.63	40.00	-19.37	QP
3	71.1222	-22.75	41.79	19.04	40.00	-20.96	QP
4	74.3687	-21.66	47.09	25.43	40.00	-14.57	QP
5	139.8397	-16.39	37.63	21.24	43.50	-22.26	QP
6	191.7836	-12.13	33.09	20.96	43.50	-22.54	QP

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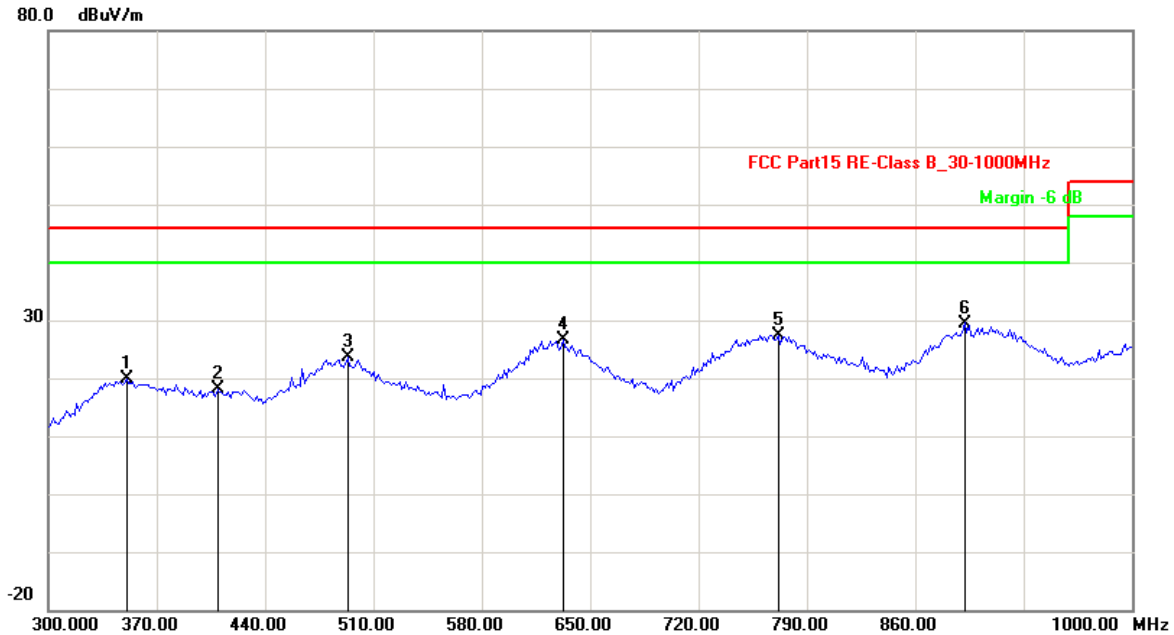
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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	350.5010	-13.52	33.31	19.79	46.00	-26.21	QP
2	409.4188	-14.91	32.97	18.06	46.00	-27.94	QP
3	493.5872	-10.02	33.54	23.52	46.00	-22.48	QP
4	632.4649	-7.41	33.92	26.51	46.00	-19.49	QP
5	771.3427	-5.75	33.05	27.30	46.00	-18.70	QP
6	891.9840	-4.33	33.83	29.50	46.00	-16.50	QP

Above 1GHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	1639.279	-1.32	41.48	40.16	74.00	-33.84	peak
2	1639.279	-1.32	26.68	25.36	54.00	-28.64	AVG
3	1991.984	-1.15	42.54	41.39	74.00	-32.61	peak
4	1991.984	-1.15	27.53	26.38	54.00	-27.62	AVG
5	2388.778	2.68	43.21	45.89	74.00	-28.11	peak
6	2388.778	2.68	28.28	30.96	54.00	-23.04	AVG
7	3248.497	7.40	41.63	49.03	74.00	-24.97	peak
8	3248.497	7.40	27.18	34.58	54.00	-19.42	AVG
9	4857.715	11.83	37.44	49.27	74.00	-24.73	peak
10	4857.715	11.83	23.43	35.26	54.00	-18.74	AVG
11	5607.214	14.12	38.82	52.94	74.00	-21.06	peak
12	5607.214	14.12	24.03	38.15	54.00	-15.85	AVG

Note: Level = Reading + Factor.    Margin = Limit - Level.

Remark: Others frequency Radiated Emission level margin all >10dB of Limit.

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## 8. Band Edge Compliance test

### 8.1. Test Equipment

Band Edge Compliance test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2012/11
2	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2012/11
3	Pre-Amplifier	EMC	EMC330	980113	2012/11
4	Pre-Amplifier	EMC	EMC012645	980114	2012/11

### 8.2. Test Information

EUT	BLUETOOTH SCALE
Firm Name	XIANYANG HUACHAO WEIGHING APPARATUS CO. , LTD.
Operating Condition	DC 6.0V for TX
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	14~29 May 2013
Operator	<b>Duke</b>
MODEL NO	RSP-0280

### 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	32.49	20.17	35.96	22.92
	2400MHz	58.79	52.66	63.49	57.53
High Channel	2483.5MHz	42.82	38.40	48.51	44.71
	2500MHz	29.83	17.52	32.50	19.86

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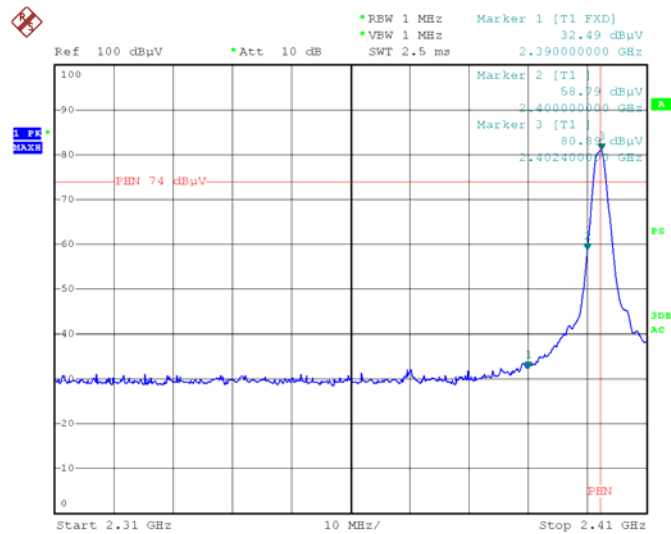
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Band Edges(CH Low)  
Detector mode:Peak

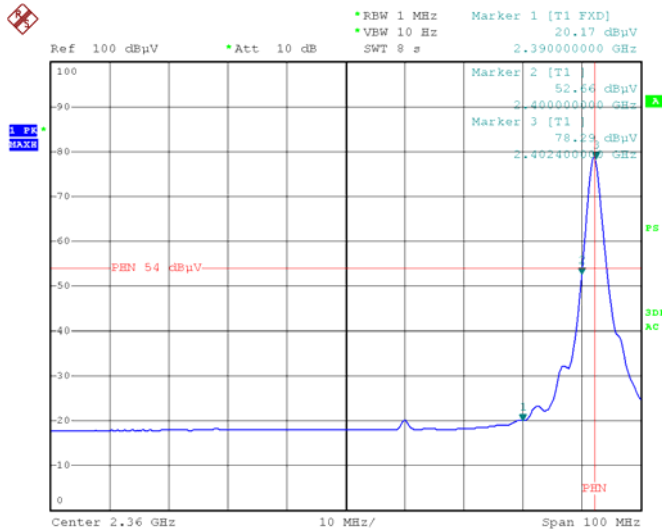
Polarity:Horizontal



Date: 29.MAY.2013 13:37:17

Band Edges(CH Low)  
Detector mode:Average

Polarity:Horizontal



Date: 29.MAY.2013 13:38:24

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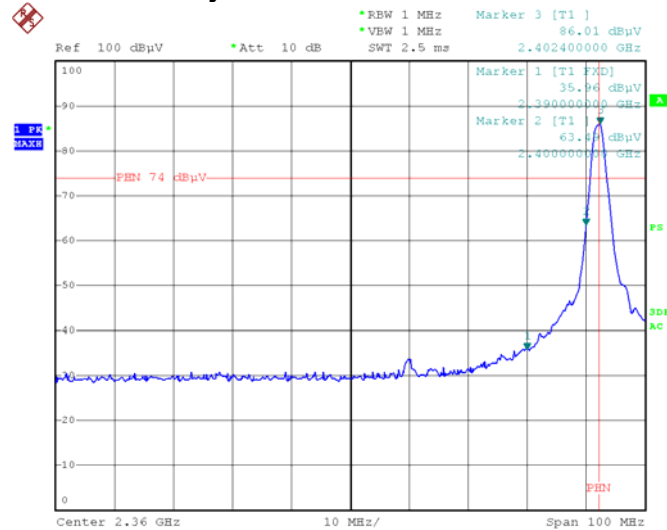
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Fax: +86-20-38780406

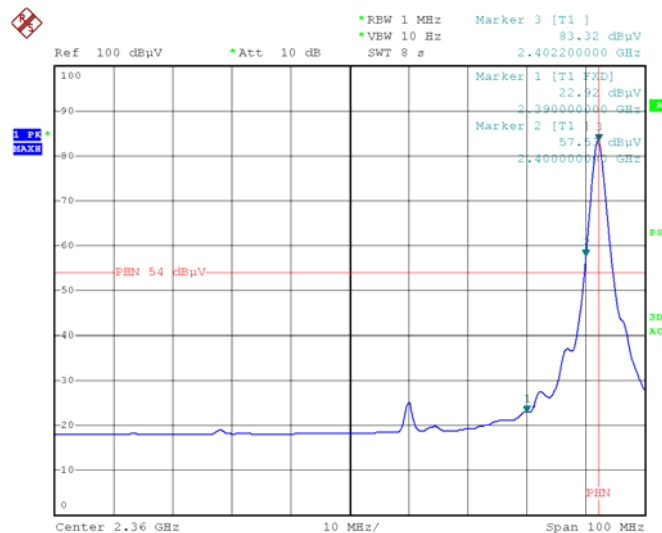
Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

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**Band Edges(CH Low)**  
**Detector mode:Peak****Polarity:Vertical**

Date: 29.MAY.2013 13:40:15

**Band Edges(CH Low)**  
**Detector mode:Average****Polarity:Vertical**

Date: 29.MAY.2013 13:40:45

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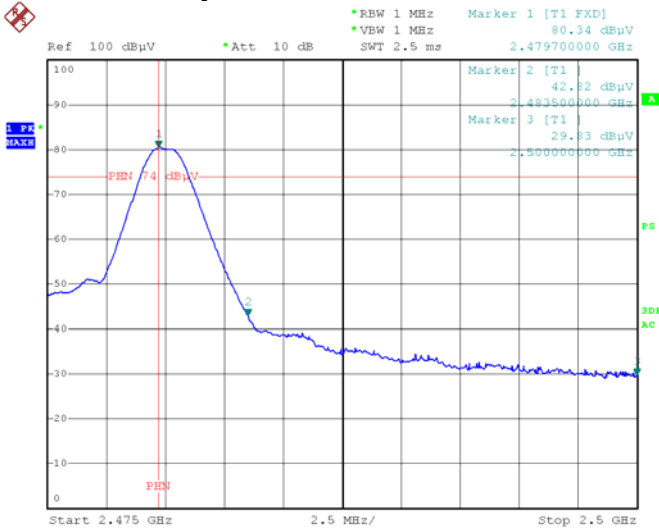
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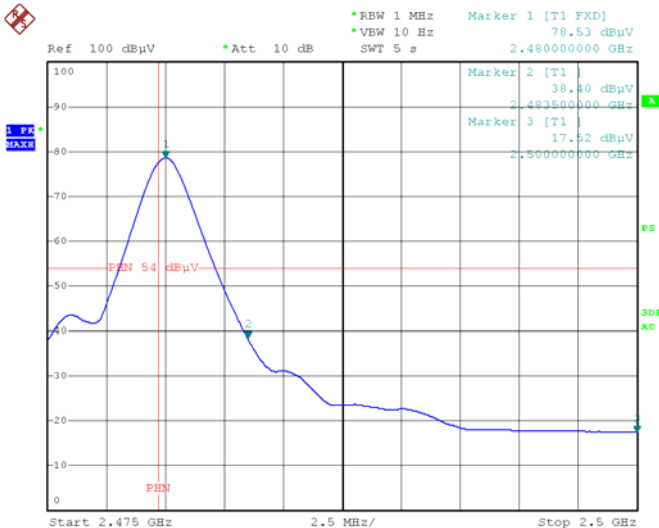
Band Edges(CH High)  
Detector mode:Peak

Polarity:Horizontal



Band Edges(CH High)  
Detector mode:Average

Polarity:Horizontal



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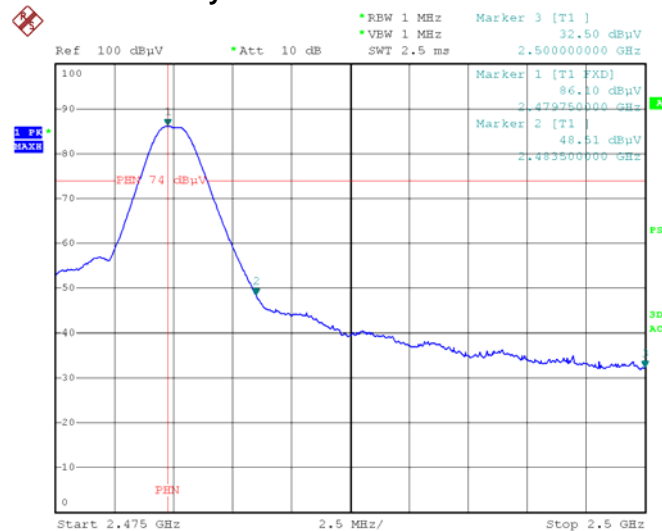
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Band Edges(CH High)  
Detector mode:Peak

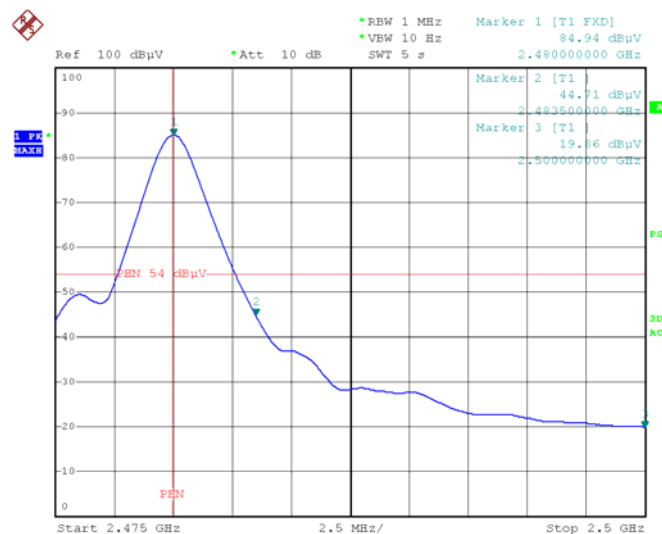
Polarity:Vertical



Date: 29.MAY.2013 13:30:52

Band Edges(CH High)  
Detector mode:Average

Polarity:Vertical



Date: 29.MAY.2013 13:32:11

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## 9. 20 dB Bandwidth test

### 9.1. Test Equipment

20 dB Bandwidth test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2012/11
2	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2012/11
3	Pre-Amplifier	EMC	EMC330	980113	2012/11
4	Pre-Amplifier	EMC	EMC012645	980114	2012/11

### 9.2. Test Information

EUT	BLUETOOTH SCALE
Firm Name	XIANYANG HUACHAO WEIGHING APPARATUS CO. , LTD.
Operating Condition	DC 6.0V for TX
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	14~29 May 2013
Operator	Duke
MODEL NO	RSP-0280

### 9.3. Test Results

**PASSED.**

The testing data was attached in the next pages.

Channel	Frequency (MHz)	Bandwidth (MHz)	Result (MHz)
Low	2402	1.128	Pass
Mid	2440	1.218	Pass
High	2480	1.212	Pass

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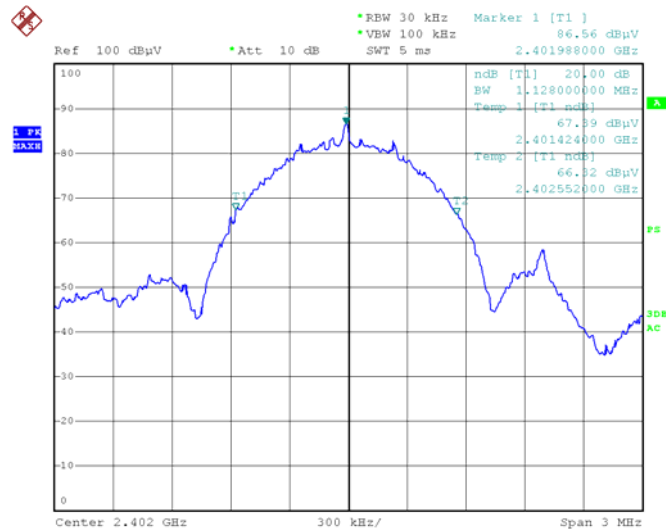
Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

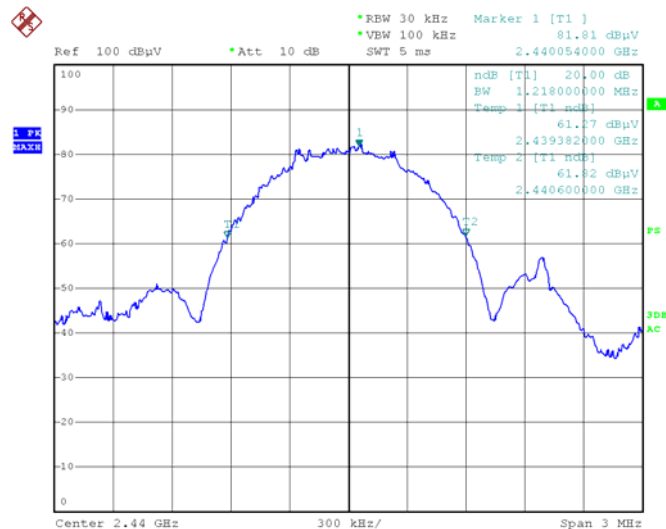
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**20 dB Bandwidth (2402MHz)**

Date: 29.MAY.2013 13:26:41

**20 dB Bandwidth (2440MHz)**

Date: 29.MAY.2013 13:28:00

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## 10.Deviation to test specifications

[ NONE]

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