



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID TEST REPORT

TEST REPORT NUMBER : CGZ3130311-00150-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, 2012

Report Reference No. CGZ3130311-00150-E

Date of issue 09 January 2013

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 Partial application of Harmonised standards Other standard testing method

Applicant's name Elite Century Technology Ltd.

Address Room 1302, 13/F, Mega Trade Center, 1 Mei Wan Street, Tsuen Wan, N. T. Hong Kong

Test specification

Standard 47 CFR PART 15 OCT, 2012

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 Waterproof Bluetooth Speaker

Trade Mark NEUTAC

Manufacturer GuangZhou PanYu Elite Century Electronic Co., Ltd

Model/Type reference BW-201

Ratings Battery 3.7V for EUT, and AC 120V for Notebook

Operating Frequency 2402MMHz ~2480.00MHz/ GFSK,π/4-DQPSK,8DPSK

Result Positive

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

Test Report No. : CGZ3130311-00150-E

09 January 2013
Date of issue

Type / Model..... BW-201

EUT..... Waterproof Bluetooth Speaker

Applicant..... Elite Century Technology Ltd.

Address..... Room 1302, 13/F, Mega Trade Center, 1 Mei Wan Street, Tsuen Wan, N. T. Hong Kong

Telephone..... +852-26876059

Fax..... +852-26876045

Contact..... Abel Zhao

Manufacturer..... GuangZhou PanYu Elite Century Electronic Co., Ltd.

Address..... /

Telephone..... /

Fax..... /

Contact..... /

Test report holder..... GuangZhou PanYu Elite Century Electronic Co., Ltd.

Address..... /

Telephone..... /

Fax..... /

Contact..... /

Test Result according to the standards on page 1: **PASSED**

The test report merely corresponds to the test sample.

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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	04 January 2013
Testing commenced on	04 ~09 January 2013
Testing concluded on	09 January 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 : ■ Battery 3.7V for EUT, and AC 120V for Notebook

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- Zposition
- TX- X position
- Charging

Operation mode 1:TX-X Position Low (2402MHz) , TX-X Position Middle (2441MHz) ,
TX-X Position High (2480MHz)

Operation mode 2: Charging

Note:Operation mode 1 TX -X position of EUT is the radiated test worst case; Operation mode 2 Charging is the conducted test worst case. so only these test results be recorded in the test report.

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3.4 EUT configuration

3.4.1. Description of configuration (EUT)

Description	:	Waterproof Bluetooth Speaker
Model Number	:	BW-201
Operation frequency	:	2402~ 2480 MHz ISM Band
Radio Technology	:	GFSK, π/4-DQPSK,8DPSK
Modulation Technology	:	GFSK, π/4-DQPSK,8DPSK modulation
Antenna	:	PCB antenna, met requirement of FCC 15.203

3.4.2. Tested Supporting System Details

3.4.2.1. NoteBook

M/N	:	E40
S/N	:	05788DC
Manufacturer	:	IBM
Power Cord	:	Unshielded, Detachable, 1.8m , 3Pin
FCC ID	:	ID

3.4.2.2. Mouse

M/N	:	WB365PA
S/N	:	2HTJMB101178717
Manufacturer	:	HP
Data Cable	:	Shielded, Detachable, 1.8m
FCC	:	By DoC

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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

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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 13,2012.

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.

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4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
Radiation emission (3m)	30MHz~300MHz	±3.14dB	(1)
	300MHz~1000MHz	±3.18dB	(1)
	1GHz~26.5GHz	±3.54dB	(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	PASSED
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.

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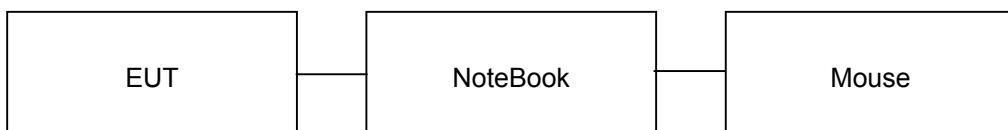
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6. Power Line Conducted Emission Test

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	2012/11
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2012/11
3	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/026	2012/11
4	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2012/11
5	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2012/11

6.2. Block Diagram of Test Setup



(EUT: Waterproof Bluetooth Speaker)

6.3. Power Line Conducted Emission Test Limits

Standard: RSS-Gen:7.2.4, FCC Part 15 : 15.207, ANSI C63.4-2009

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 XBOX 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.

6.5. Power Line Conducted Emission Test Results

PASSED.

The frequency range from 150KHz~30MHz is investigated. Please see the following pages.

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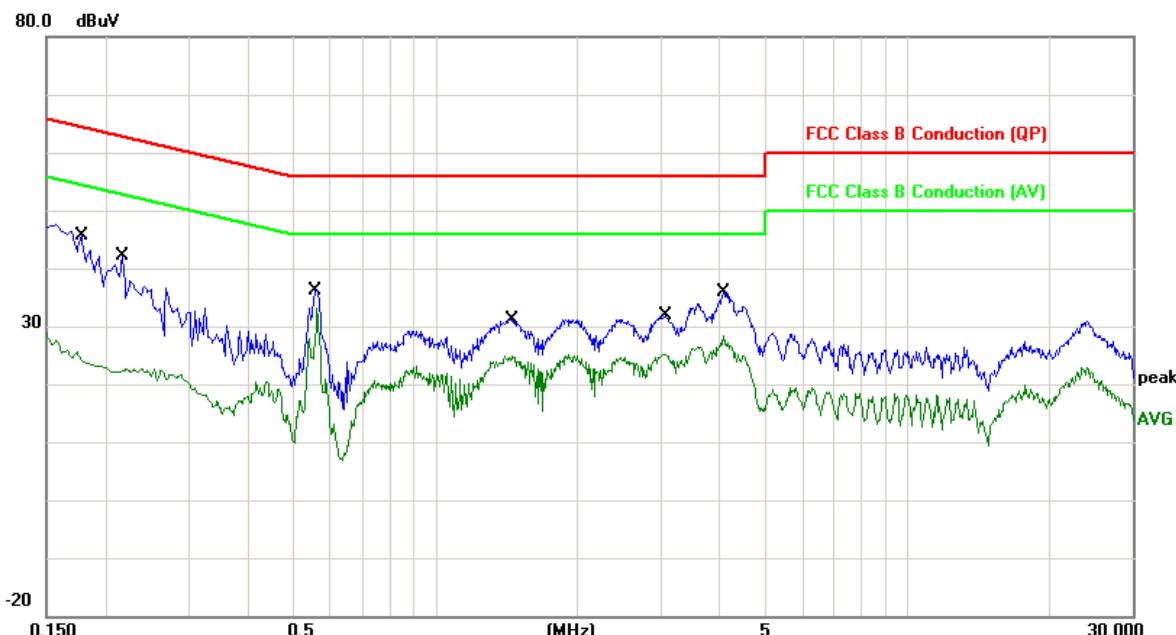
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Test point:	L	Result:	<input checked="" type="checkbox"/> - passed
Frequency range:	0.15MHz~30MHz		<input type="checkbox"/> - not passed

EUT	Waterproof Bluetooth Speaker
Firm Name	Elite Century Technology Ltd.
Operating Condition	Charging
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	04~09 January 2013
Operator	Duke
MODEL NO	BW-201



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.1780	9.99	25.36	35.35	64.58	-29.23	QP
2	0.1780	9.99	13.75	23.74	54.58	-30.84	AVG
3	0.2180	9.99	20.69	30.68	62.89	-32.21	QP
4	0.2180	9.99	11.83	21.82	52.89	-31.07	AVG
5	0.5580	10.04	23.83	33.87	56.00	-22.13	QP
6	0.5580	10.04	19.74	29.78	46.00	-16.22	AVG
7	1.4580	10.10	17.72	27.82	56.00	-28.18	QP
8	1.4580	10.10	13.46	23.56	46.00	-22.44	AVG
9	3.0740	10.03	18.52	28.55	56.00	-27.45	QP
10	3.0740	10.03	14.10	24.13	46.00	-21.87	AVG
11	4.0740	10.08	21.20	31.28	56.00	-24.72	QP
12	4.0740	10.08	15.60	25.68	46.00	-20.32	AVG

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

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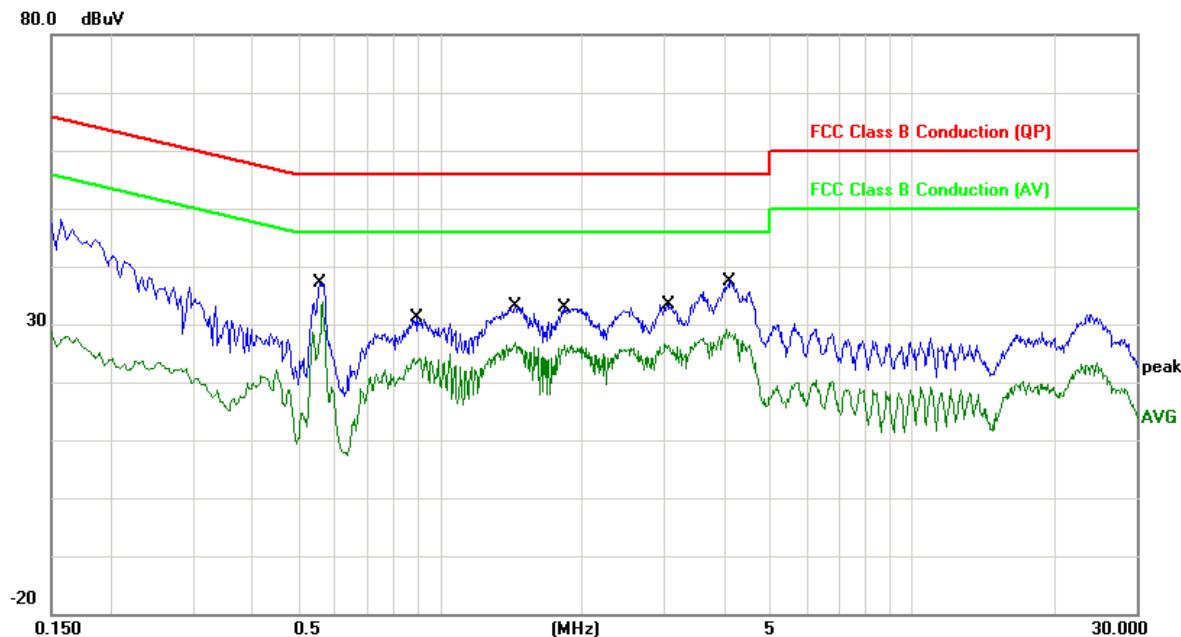
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Test point:	N	Result:	■ - passed
Frequency range:	0.15MHz~30MHz		□ - not passed



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.5580	10.04	24.24	34.28	56.00	-21.72	QP
2	0.5580	10.04	18.36	28.40	46.00	-17.60	AVG
3	0.8900	10.11	17.48	27.59	56.00	-28.41	QP
4	0.8900	10.11	12.91	23.02	46.00	-22.98	AVG
5	1.4460	10.10	19.08	29.18	56.00	-26.82	QP
6	1.4460	10.10	14.60	24.70	46.00	-21.30	AVG
7	1.8380	10.08	18.40	28.48	56.00	-27.52	QP
8	1.8380	10.08	13.71	23.79	46.00	-22.21	AVG
9	3.0620	10.03	19.79	29.82	56.00	-26.18	QP
10	3.0620	10.03	14.86	24.89	46.00	-21.11	AVG
11	4.1060	10.08	22.45	32.53	56.00	-23.47	QP
12	4.1060	10.08	16.64	26.72	46.00	-19.28	AVG

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

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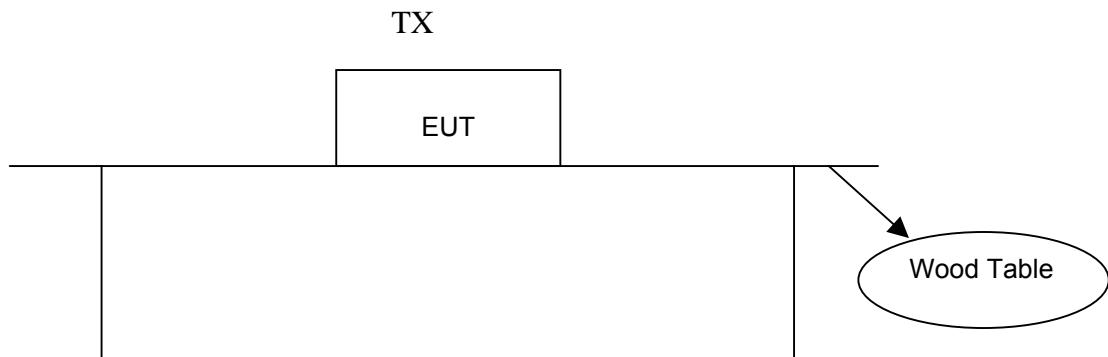
7. Radiated disturbance (electric field)

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	2012/11
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2012/11
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2012/11
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2012/11
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2012/11
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2012/11

7.2. Block Diagram of Test Setup

7.2.1 Block Diagram of connection between EUT and simulators



(EUT: Waterproof Bluetooth Speaker)

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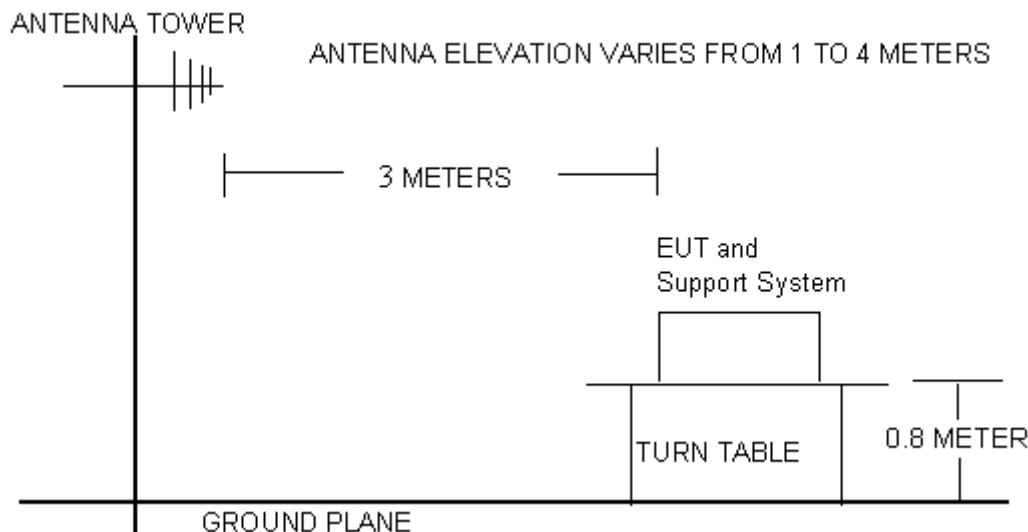
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7.2.2 Anechoic Chamber Setup Diagram



7.3.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 (μ V/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	
		μ V/m	dB(μ V/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(μ V/m (Peak) 54.0 dB(μ V/m (Average)	

Remark: (1) Emission level $dB\mu$ V = $20 \log$ Emission level μ 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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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 2MHz 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 2MHz 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.

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Test Mode:	TX -X Position Mode	Result:	■ - passed
Frequency range:	9KHz~30MHz		□ - not passed

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
Remark: The test result reading value is to low, margin all > 10dB of the limit.							

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Complaint line: +86-20-85533471

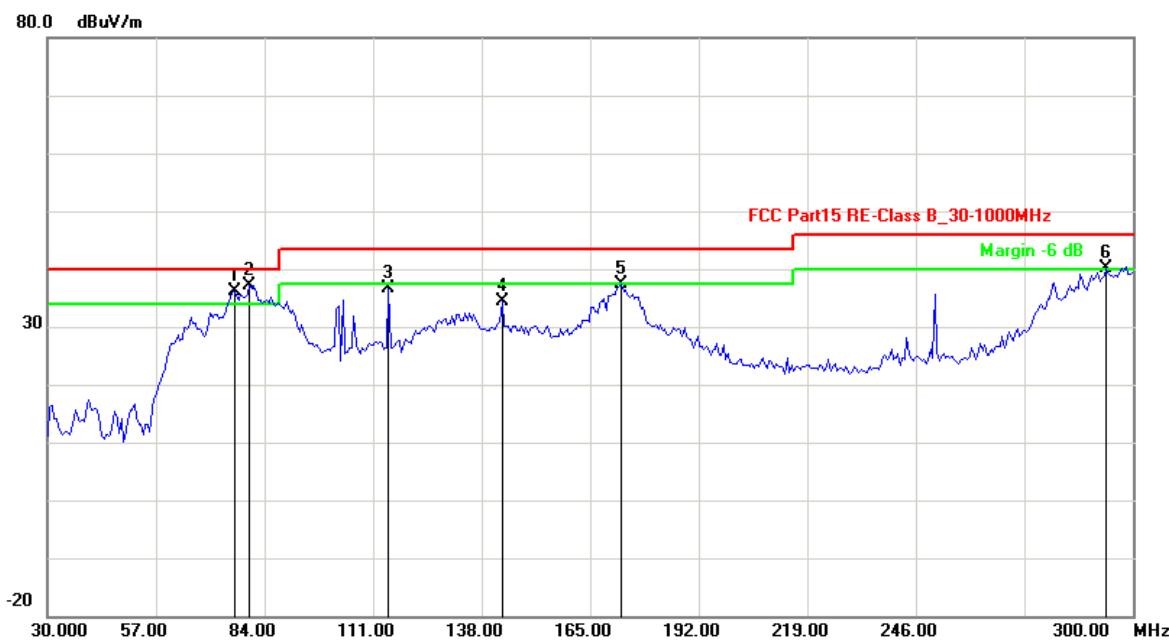
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Channel:	TX -X Position Mode Low 2402MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	30MHz-26.5GHz		

EUT	Waterproof Bluetooth Speaker
Firm Name	Elite Century Technology Ltd.
Operating Condition	Battery 3.7V for EUT, and AC 120V for Notebook
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	04~09 January 2013
Operator	Duke
MODEL NO	BW-201

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2402.00	2.81	89.42	92.23	114.00	-21.77	Peak
2	2402.00	2.81	86.24	89.05	94.00	-5.95	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	76.5330	-21.44	57.63	36.19	40.00	-3.81	QP
2	80.3206	-21.48	58.62	37.14	40.00	-2.86	QP
3	114.9498	-19.35	55.97	36.62	43.50	-6.88	QP
4	143.0861	-16.68	51.01	34.33	43.50	-9.17	QP
5	172.8456	-16.32	53.80	37.48	43.50	-6.02	QP
6	293.5070	-6.54	46.63	40.09	46.00	-5.91	QP

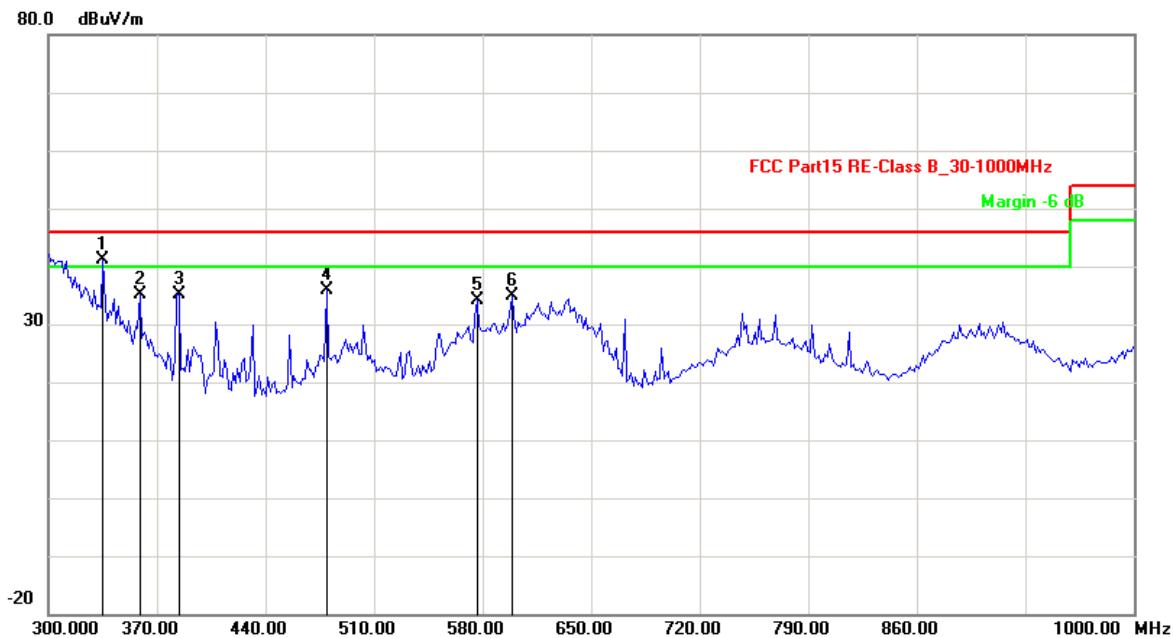
Remark: Other frequency mini margin all >10 dB of Limit

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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	335.0701	-14.31	55.43	41.12	46.00	-4.88	QP
2	358.9178	-13.85	48.95	35.10	46.00	-10.90	QP
3	384.1683	-14.90	49.94	35.04	46.00	-10.96	QP
4	479.5591	-9.77	45.55	35.78	46.00	-10.22	QP
5	576.3527	-14.98	49.08	34.10	46.00	-11.90	QP
6	598.7975	-11.21	46.20	34.99	46.00	-11.01	QP

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

Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1595.190	-1.34	46.81	45.47	74.00	-28.53	peak
2	1595.190	-1.34	33.51	32.17	54.00	-21.83	AVG
3	2983.968	6.51	43.74	50.25	74.00	-23.75	peak
4	2983.968	6.51	31.07	37.58	54.00	-16.42	AVG
5	3292.585	7.54	42.22	49.76	74.00	-24.24	peak
6	3292.585	7.54	28.94	36.48	54.00	-17.52	AVG
7	3953.908	9.66	40.12	49.78	74.00	-24.22	peak
8	3953.908	9.66	26.82	36.48	54.00	-17.52	AVG
9	4637.275	11.31	38.55	49.86	74.00	-24.14	peak
10	4637.275	11.31	24.38	35.69	54.00	-18.31	AVG
11	5188.377	12.77	38.76	51.53	74.00	-22.47	peak
12	5188.377	12.77	25.71	38.48	54.00	-15.52	AVG

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

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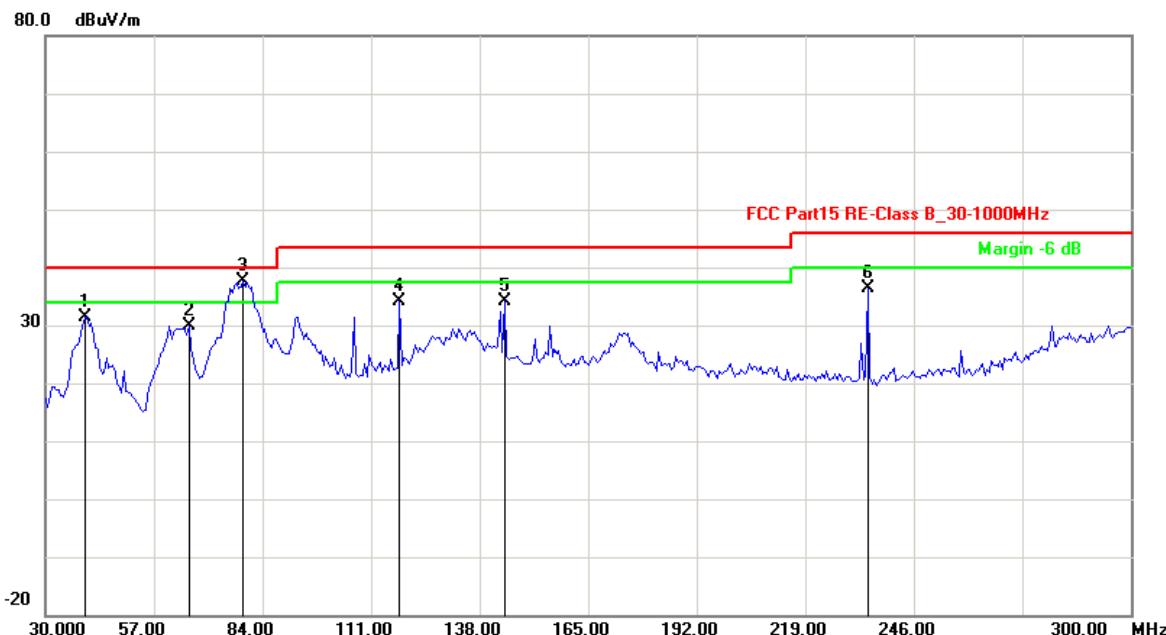
Complaint line: +86-20-85533471

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

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Channel:	TX -X Position Mode Low 2402MHz	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	30MHzHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2402	2.81	92.96	96.15	114	-17.85	peak
2	2402	2.81	88.03	91.22	94	-2.78	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	39.7394	-25.86	57.23	31.37	40.00	-8.63	QP
2	65.7114	-23.73	53.55	29.82	40.00	-10.18	QP
3	79.2384	-21.42	59.17	37.75	40.00	-2.25	QP
4	118.1963	-18.57	52.70	34.13	43.50	-9.37	QP
5	144.1683	-16.78	50.86	34.08	43.50	-9.42	QP
6	234.5290	-12.70	49.15	36.45	46.00	-9.55	QP

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

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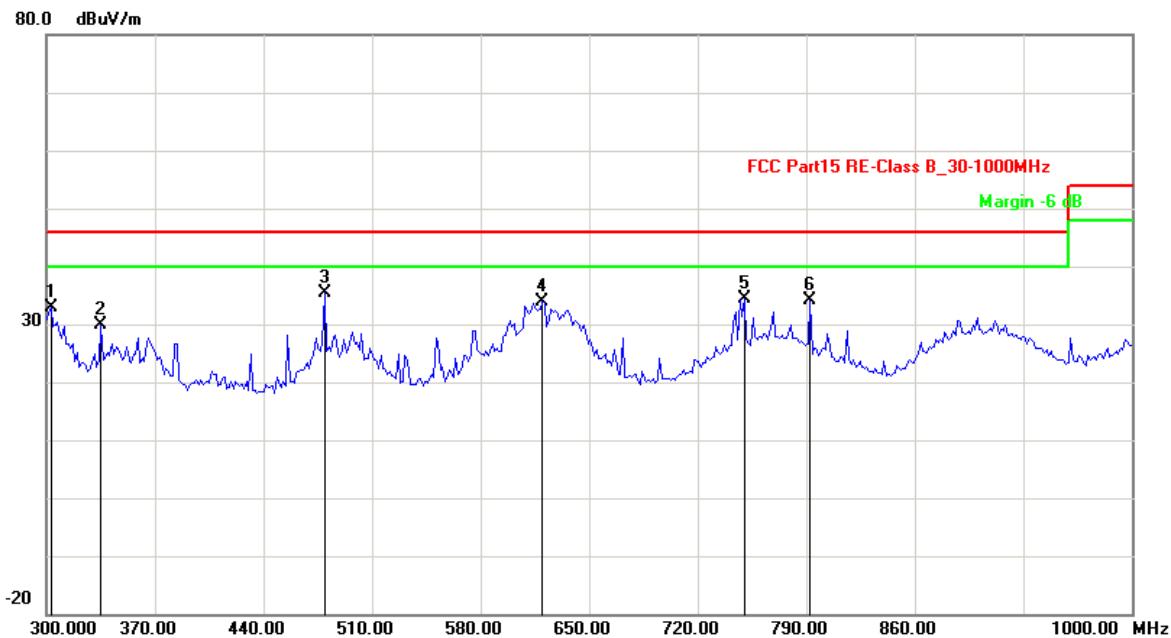
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	302.8056	-20.55	53.44	32.89	46.00	-13.11	QP
2	335.0701	-14.31	44.25	29.94	46.00	-16.06	QP
3	479.5591	-9.77	45.11	35.34	46.00	-10.66	QP
4	619.8397	-7.10	40.95	33.85	46.00	-12.15	QP
5	750.3006	-6.30	40.78	34.48	46.00	-11.52	QP
6	792.3847	-7.53	41.66	34.13	46.00	-11.87	QP

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

Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1484.970	-1.51	47.20	45.69	74.00	-28.31	peak
2	1484.970	-1.51	33.92	32.41	54.00	-21.59	AVG
3	2873.747	5.89	42.59	48.48	74.00	-25.52	peak
4	2873.747	5.89	29.86	35.75	54.00	-18.25	AVG
5	3358.717	7.75	41.74	49.49	74.00	-24.51	peak
6	3358.717	7.75	29.71	37.46	54.00	-16.54	AVG
7	3909.820	9.52	40.14	49.66	74.00	-24.34	peak
8	3909.820	9.52	27.53	37.05	54.00	-16.95	AVG
9	4306.613	10.53	39.39	49.92	74.00	-24.08	peak
10	4306.613	10.53	26.32	36.85	54.00	-17.15	AVG
11	4923.848	11.98	38.03	50.01	74.00	-23.99	peak
12	4923.848	11.98	25.69	37.67	54.00	-16.33	AVG

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

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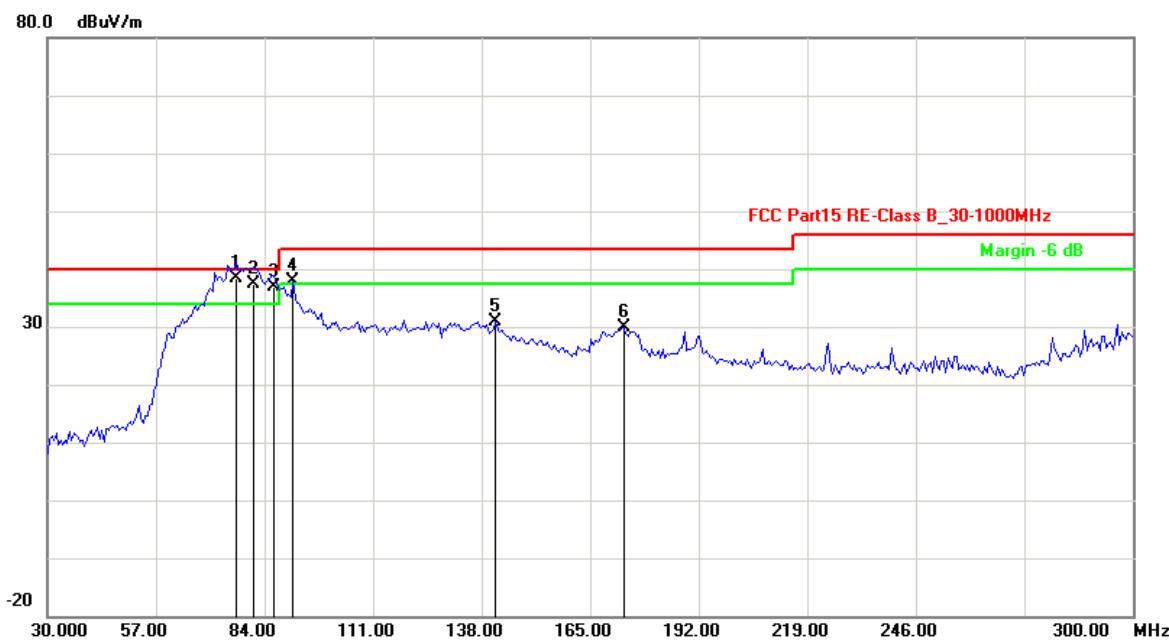
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Channel:	TX -X Position Mode Middle 2441MHz	Result:	■ - passed □ - not passed
Test point:	Horizontal		
Frequency range:	30MHz-26.5GHz		

EUT	Waterproof Bluetooth Speaker
Firm Name	Elite Century Technology Ltd.
Operating Condition	Battery 3.7V for EUT, and AC 120V for Notebook
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	04~09 January 2013
Operator	Duke
MODEL NO	BW-201

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2441	3.19	88.47	91.66	114	-22.34	peak
2	2441	3.19	84.73	87.92	94	-6.08	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	77.0741	-21.43	58.69	37.26	40.00	-2.74	QP
2	81.4028	-21.72	59.03	37.31	40.00	-2.69	QP
3	86.2725	-22.54	59.31	36.77	40.00	-3.23	QP
4	91.1423	-22.76	60.56	37.80	43.50	-5.70	QP
5	141.4629	-16.52	47.30	30.78	43.50	-12.72	QP
6	173.3868	-16.26	46.16	29.90	43.50	-13.60	QP

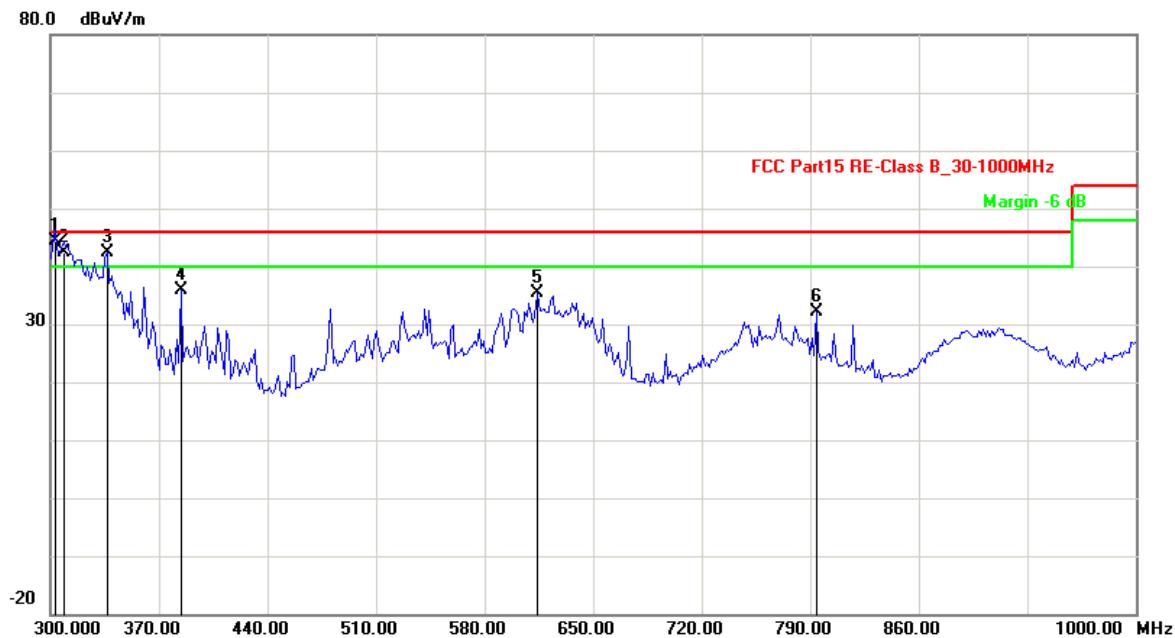
Remark: Other frequency mini margin all >10 dB of Limit

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Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1749.499	-1.27	46.03	44.76	74.00	-29.24	peak
2	1749.499	-1.27	33.42	32.15	54.00	-21.85	AVG
3	2983.968	6.51	44.52	51.03	74.00	-22.97	peak
4	2983.968	6.51	31.96	38.47	54.00	-15.53	AVG
5	3865.731	9.38	40.17	49.55	74.00	-24.45	peak
6	3865.731	9.38	25.21	34.59	54.00	-19.41	AVG
7	4218.437	10.32	39.11	49.43	74.00	-24.57	peak
8	4218.437	10.32	26.86	37.18	54.00	-16.82	AVG
9	4945.892	12.03	38.24	50.27	74.00	-23.73	peak
10	4945.892	12.03	26.43	38.46	54.00	-15.54	AVG
11	5717.435	14.47	39.12	53.59	74.00	-20.41	peak
12	5717.435	14.47	25.82	40.29	54.00	-13.71	AVG

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

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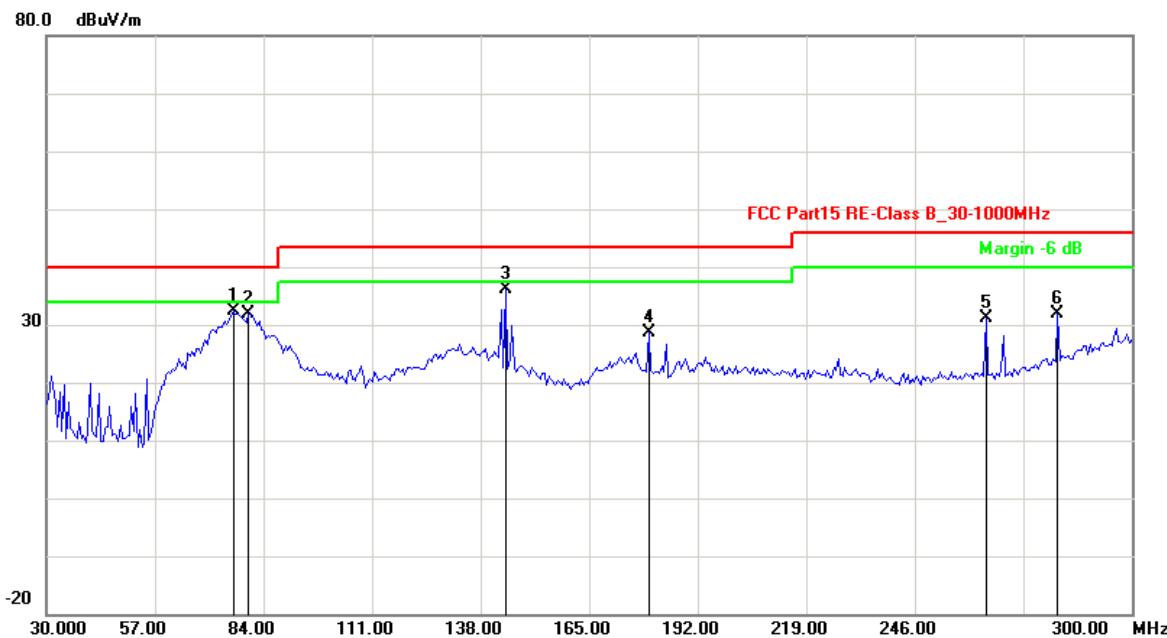
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Channel:	TX -X Position Mode Middle 2441MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	30MHzHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2441	3.19	92.79	96.36	114	-17.64	peak
2	2441	3.19	87.46	91.03	94	-2.97	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	76.5331	-21.44	53.79	32.35	40.00	-7.65	QP
2	80.3206	-21.48	53.28	31.80	40.00	-8.20	QP
3	144.1683	-16.78	52.91	36.13	43.50	-7.37	QP
4	179.8798	-15.56	44.27	28.71	43.50	-14.79	QP
5	263.7475	-12.29	43.32	31.03	46.00	-14.97	QP
6	281.6032	-8.98	40.78	31.80	46.00	-14.20	QP

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

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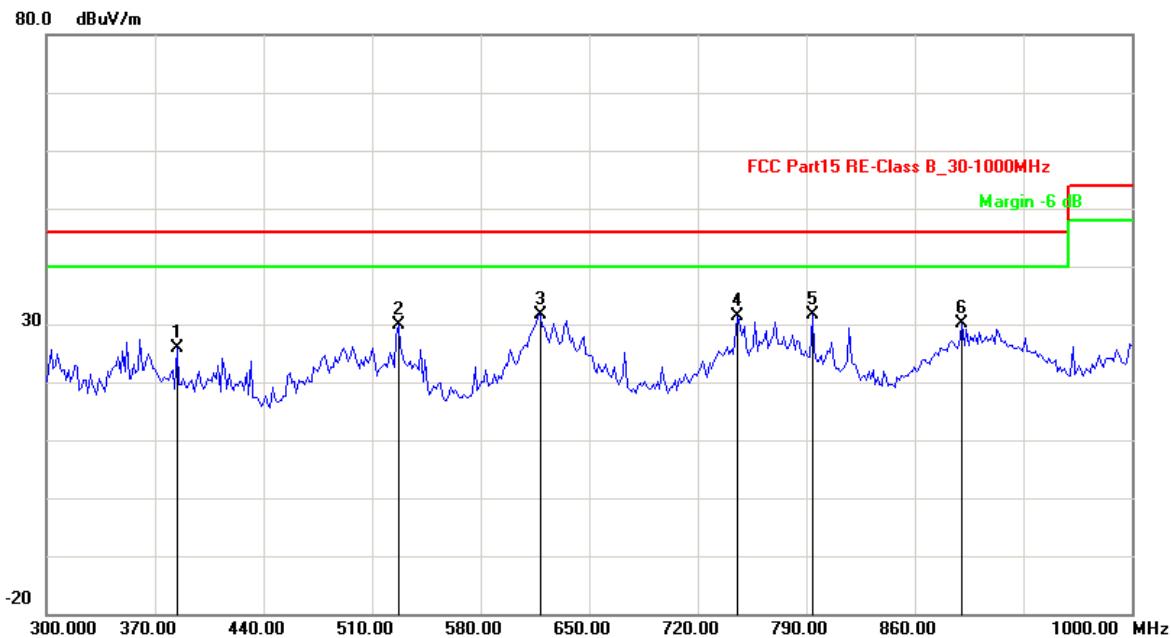
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	384.1683	-14.90	40.86	25.96	46.00	-20.04	QP
2	527.2545	-13.65	43.41	29.76	46.00	-16.24	QP
3	618.4369	-7.38	39.02	31.64	46.00	-14.36	QP
4	746.0922	-6.66	38.04	31.38	46.00	-14.62	QP
5	793.7876	-7.71	39.45	31.74	46.00	-14.26	QP
6	890.5812	-4.40	34.60	30.20	46.00	-15.80	QP

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

Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1484.970	-1.51	47.77	46.26	74.00	-27.74	peak
2	1484.970	-1.51	34.99	33.48	54.00	-20.52	AVG
3	2983.968	6.51	43.16	49.67	74.00	-24.33	peak
4	2983.968	6.51	29.23	35.74	54.00	-18.26	AVG
5	3601.202	8.53	41.09	49.62	74.00	-24.38	peak
6	3601.202	8.53	27.76	36.29	54.00	-17.71	AVG
7	4482.966	10.94	38.58	49.52	74.00	-24.48	peak
8	4482.966	10.94	24.47	35.41	54.00	-18.59	AVG
9	4945.892	12.03	37.69	49.72	74.00	-24.28	peak
10	4945.892	12.03	25.15	37.18	54.00	-16.82	AVG
11	5342.685	13.26	38.38	51.64	74.00	-22.36	peak
12	5342.685	13.26	17.03	30.29	54.00	-23.71	AVG

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

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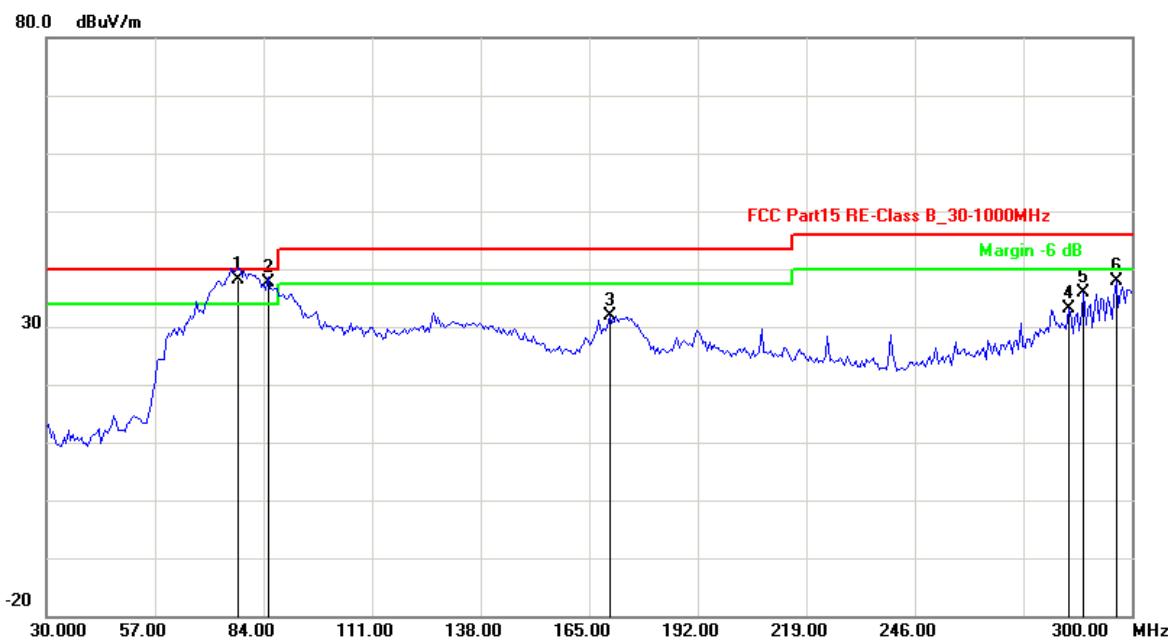
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Channel:	TX -X Position Mode High 2480MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	30MHz-26.5GHz		

EUT	Waterproof Bluetooth Speaker
Firm Name	Elite Century Technology Ltd.
Operating Condition	Battery 3.7V for EUT, and AC 120V for Notebook
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	04~09 January 2013
Operator	Duke
MODEL NO	BW-201

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2480	3.57	88.44	92.01	114	-21.99	peak
2	2480	3.57	85.30	88.87	94	-5.13	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	77.6152	-21.43	58.62	37.19	40.00	-2.81	QP
2	85.1904	-22.51	60.10	37.59	40.00	-2.41	QP
3	170.1403	-16.61	48.53	31.92	43.50	-11.58	QP
4	284.3086	-8.36	41.61	33.25	46.00	-12.75	QP
5	288.0962	-7.50	43.30	35.80	46.00	-10.20	QP
6	296.2124	-6.13	44.03	37.90	46.00	-8.10	QP

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

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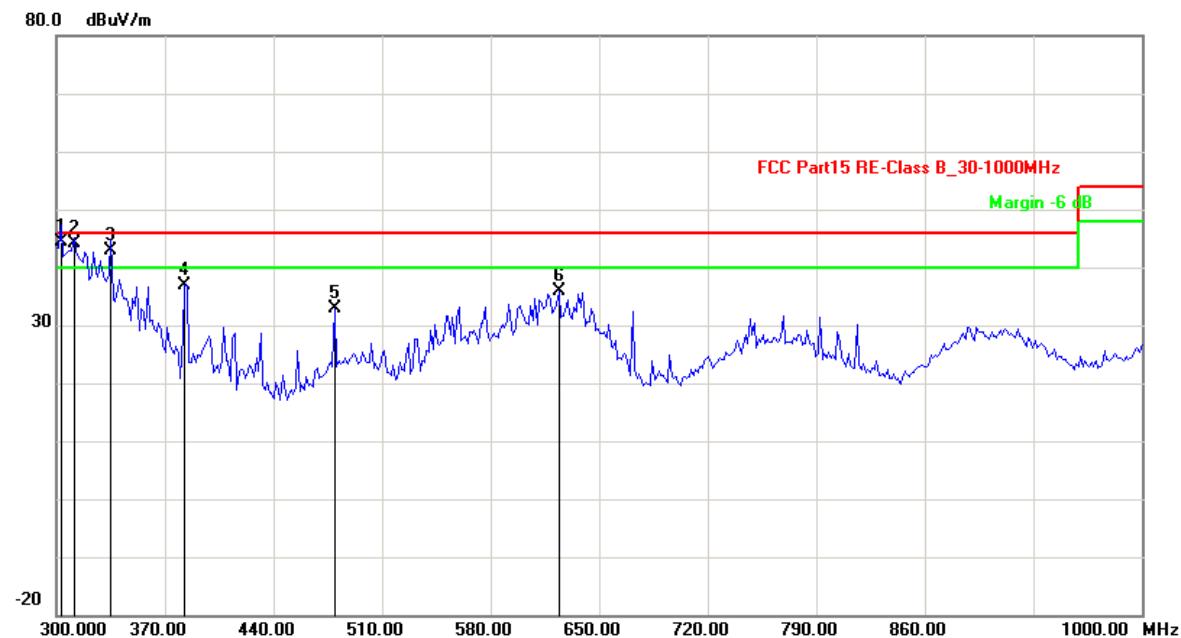
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	302.8056	-20.55	63.96	43.41	46.00	-2.59	QP
2	311.2223	-19.29	62.30	43.01	46.00	-2.99	QP
3	335.0701	-14.31	57.23	42.92	46.00	-3.08	QP
4	382.7655	-14.88	51.85	36.97	46.00	-9.03	QP
5	479.5591	-9.77	42.68	32.91	46.00	-13.09	QP
6	624.0480	-7.18	42.98	35.80	46.00	-10.20	QP

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

Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1595.190	-1.34	46.55	45.21	74.00	-28.79	peak
2	1595.190	-1.34	34.12	32.78	54.00	-21.22	AVG
3	1749.499	-1.27	45.54	44.27	74.00	-29.73	peak
4	1749.499	-1.27	33.86	32.59	54.00	-21.41	AVG
5	2983.968	6.51	43.95	50.46	74.00	-23.54	peak
6	2983.968	6.51	31.68	38.19	54.00	-15.81	AVG
7	3623.246	8.60	40.79	49.39	74.00	-24.61	peak
8	3623.246	8.60	27.82	36.42	54.00	-17.58	AVG
9	3975.952	9.73	39.40	49.13	74.00	-24.87	peak
10	3975.952	9.73	27.91	37.64	54.00	-16.36	AVG
11	4549.098	11.10	38.52	49.62	74.00	-24.38	peak
12	4549.098	11.10	25.77	36.87	54.00	-17.13	AVG

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

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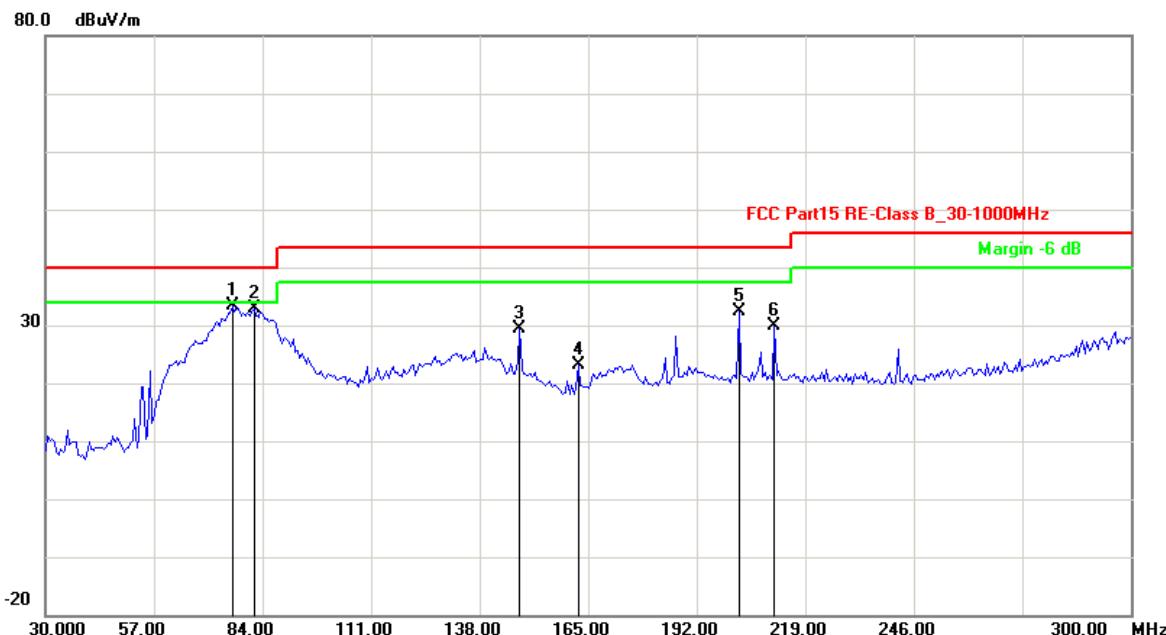
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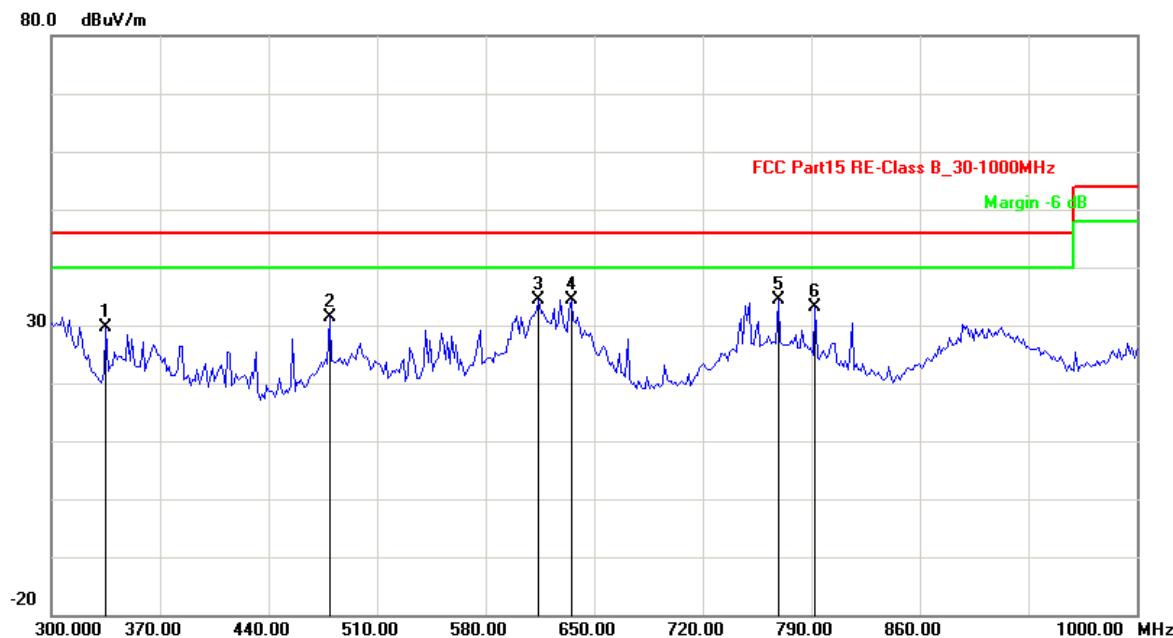
Channel:	TX -X Position Mode High 2480MHz	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	30MHzHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2480	3.57	96.42	96.42	114	-17.58	peak
2	2480	3.57	91.38	91.38	94	-2.62	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	76.5331	-21.44	54.71	33.27	40.00	-6.73	QP
2	81.9439	-21.84	54.63	32.79	40.00	-7.21	QP
3	147.9559	-17.14	46.56	29.42	43.50	-14.08	QP
4	162.5651	-18.34	41.35	23.01	43.50	-20.49	QP
5	202.6052	-12.50	44.95	32.45	43.50	-11.05	QP
6	211.2625	-12.11	41.87	29.76	43.50	-13.74	QP

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



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	335.0701	-14.31	43.90	29.59	46.00	-16.41	QP
2	479.5591	-9.77	41.13	31.36	46.00	-14.64	QP
3	614.2285	-8.20	42.70	34.50	46.00	-11.50	QP
4	635.2705	-7.48	41.90	34.42	46.00	-11.58	QP
5	768.5371	-5.69	40.06	34.37	46.00	-11.63	QP
6	792.3847	-7.53	40.55	33.02	46.00	-12.98	QP

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

Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1484.970	-1.51	48.88	47.37	74.00	-26.63	peak
2	1484.970	-1.51	36.47	34.96	54.00	-19.04	AVG
3	3028.056	6.69	42.59	49.28	74.00	-24.72	peak
4	3028.056	6.69	30.89	37.58	54.00	-16.42	AVG
5	3314.629	7.61	42.49	50.10	74.00	-23.90	peak
6	3314.629	7.61	31.87	39.48	54.00	-14.52	AVG
7	3711.423	8.88	40.48	49.36	74.00	-24.64	peak
8	3711.423	8.88	28.66	37.54	54.00	-16.46	AVG
9	4262.525	10.43	39.03	49.46	74.00	-24.54	peak
10	4262.525	10.43	26.44	36.87	54.00	-17.13	AVG
11	4901.804	11.93	38.10	50.03	74.00	-23.97	peak
12	4901.804	11.93	26.36	38.29	54.00	-15.71	AVG

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

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9. Band Edge Compliance test

9.1. Test Equipment

Band Edge Compliance test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2012/11
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2012/11
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2012/11

9.2. Test Information

EUT	Waterproof Bluetooth Speaker
Firm Name	Elite Century Technology Ltd.
Operating Condition	Battery 3.7V for EUT, and AC 120V for Notebook
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	04~09 January 2013
Operator	Duke
MODEL NO	BW-201

9.3. 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 step 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

9.4. 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	38.90	28.06	39.23	28.06
	2400MHz	66.35	63.34	73.32	65.20
High Channel	2483.5MHz	51.56	48.43	55.58	50.62
	2500MHz	42.26	28.54	43.23	28.57

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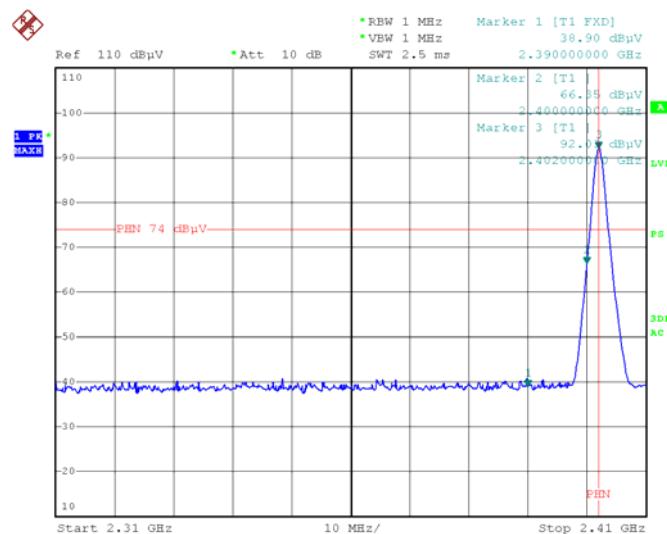
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Band Edges(CH Low)

Detector mode:Peak

Polarity:Horizontal

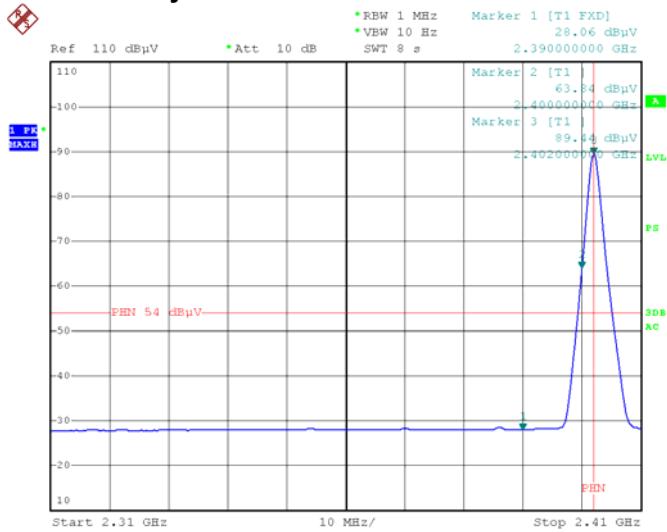


Date: 20.MAR.2013 13:05:51

Band Edges(CH Low)

Detector mode: Average

Polarity: Horizontal



Date: 20.MAR.2013 12:59:18

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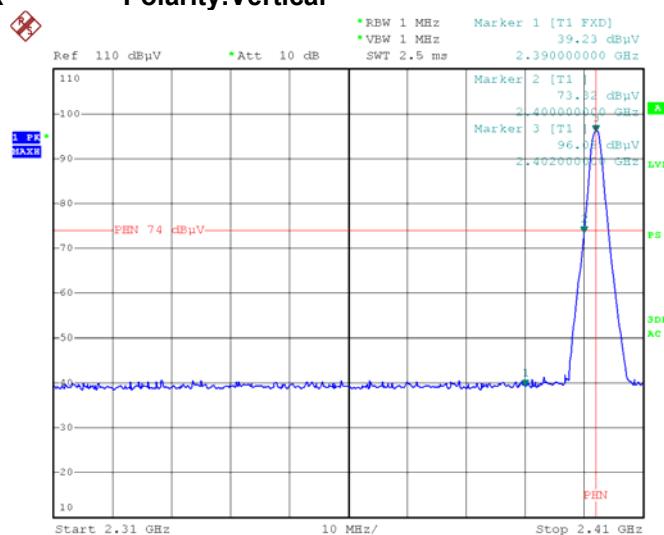
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Band Edges(CH Low)

Detector mode:Peak

Polarity:Vertical

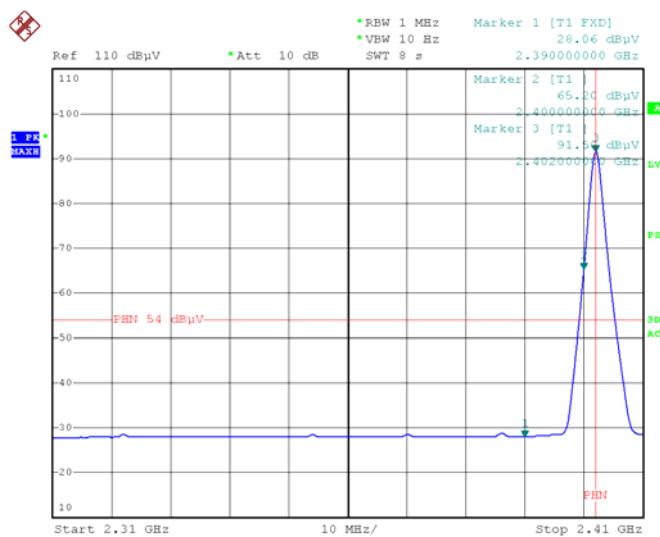


Date: 20.MAR.2013 12:57:03

Band Edges(CH Low)

Detector mode:Average

Polarity:Vertical



Date: 20.MAR.2013 12:58:48

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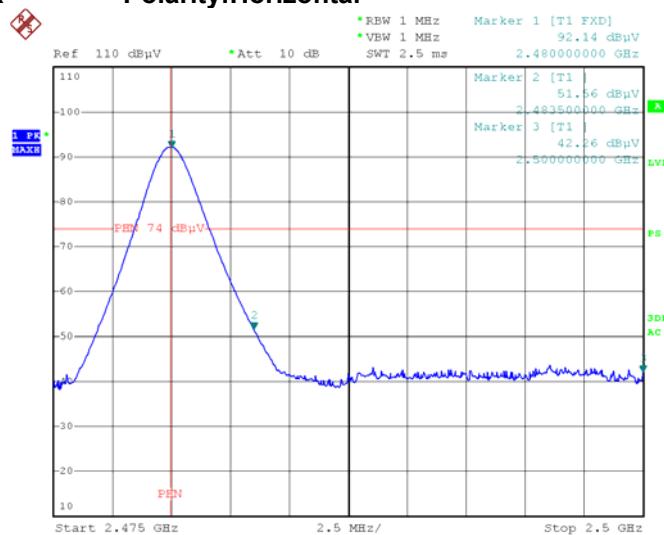
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Band Edges(CH High)

Detector mode:Peak

Polarity:Horizontal

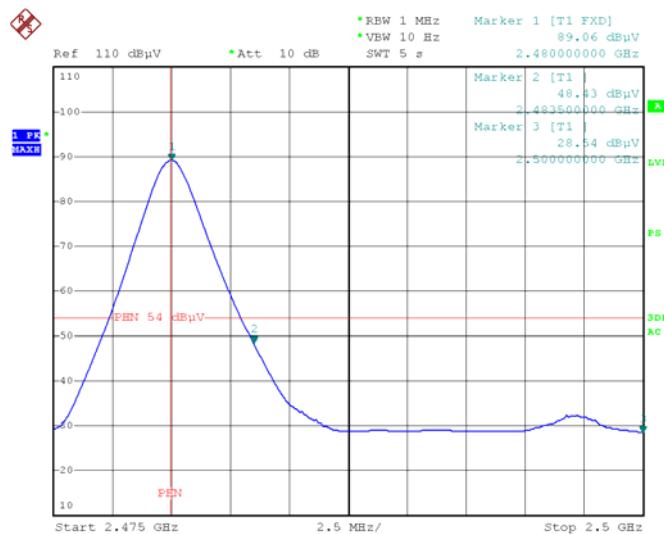


Date: 21.MAR.2013 15:55:19

Band Edges(CH High)

Detector mode:Average

Polarity:Horizontal



Date: 21.MAR.2013 15:56:09

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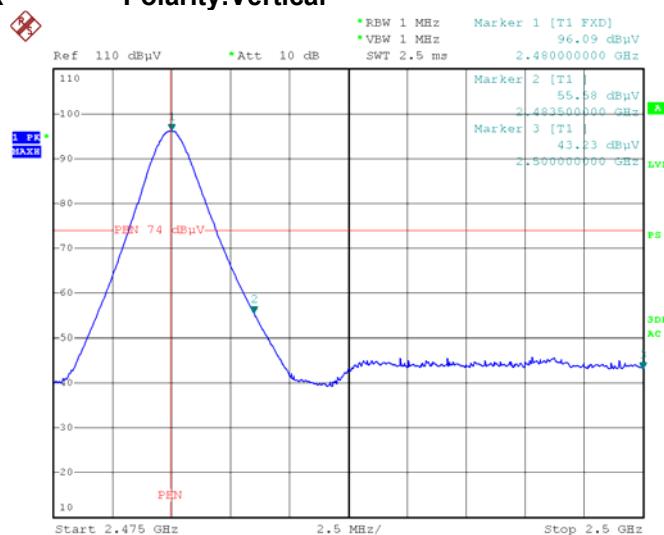
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Band Edges(CH High)

Detector mode:Peak

Polarity:Vertical

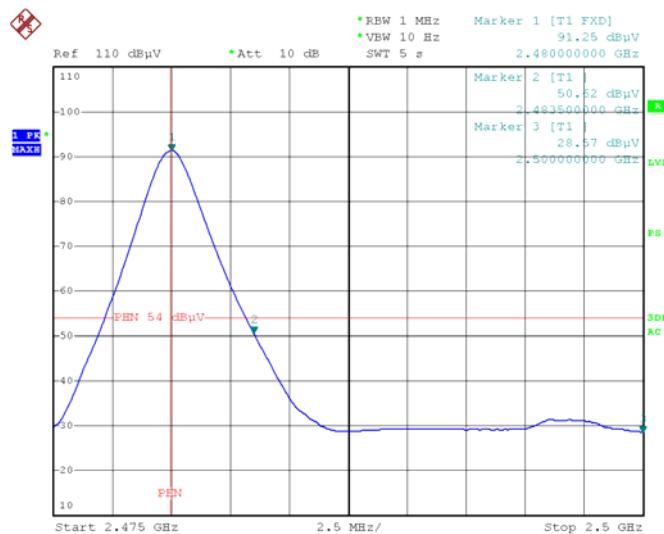


Date: 21.MAR.2013 15:54:29

Band Edges(CH High)

Detector mode:Average

Polarity:Vertical



Date: 21.MAR.2013 15:55:50

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10. 20 dB Bandwidth test

10.1. Test Equipment

20 dB Bandwidth test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2011/12
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2011/12
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2011/12

10.2. Test Information

EUT	Waterproof Bluetooth Speaker
Firm Name	Elite Century Technology Ltd.
Operating Condition	Battery 3.7V for EUT, and AC 120V for Notebook
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	04~09 January 2013
Operator	Duke
MODEL NO	BW-201

10.3. Test Results

PASSED.

The testing data was attached in the next pages.

Channel		Frequency (MHz)	20dB Bandwidth (MHz)
Low	GFSK 1M	2402	0.852
Middle		2441	0.858
High		2480	0.852
Low	π/4-DQPSK 2M	2402	1.212
Middle		2441	1.224
High		2480	1.236
Low	8DPSK 3M	2402	1.284
Middle		2441	1.302
High		2480	1.266

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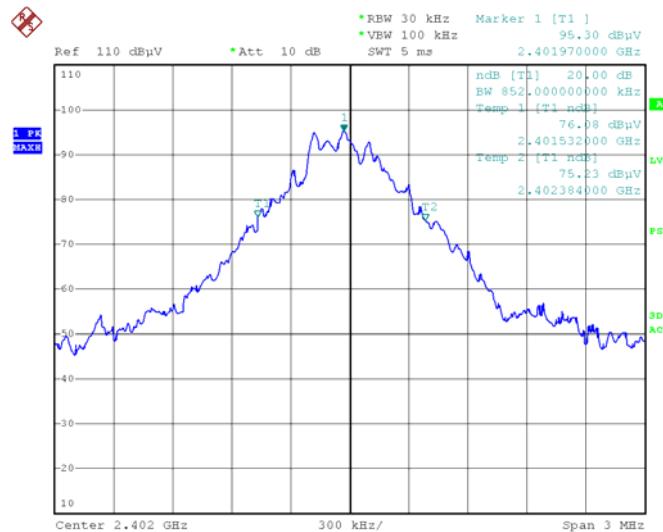
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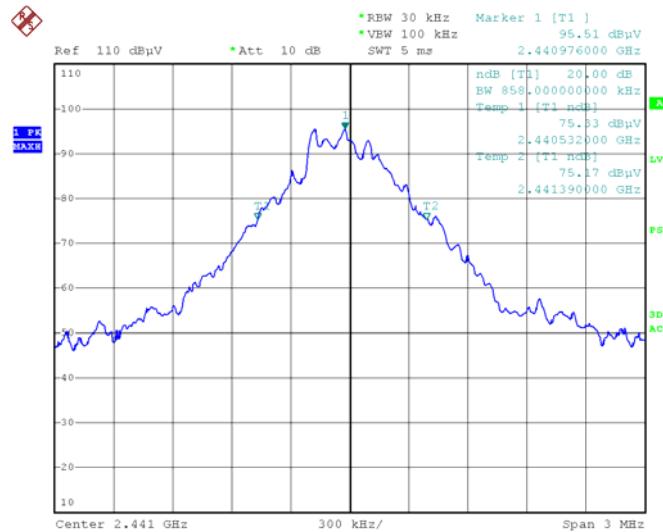
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20 dB Bandwidth (2402 MHz GFSK 1M)



Date: 27.MAR.2013 11:28:26

20 dB Bandwidth (2441MHz GFSK 1M)



Date: 27.MAR.2013 11:38:50

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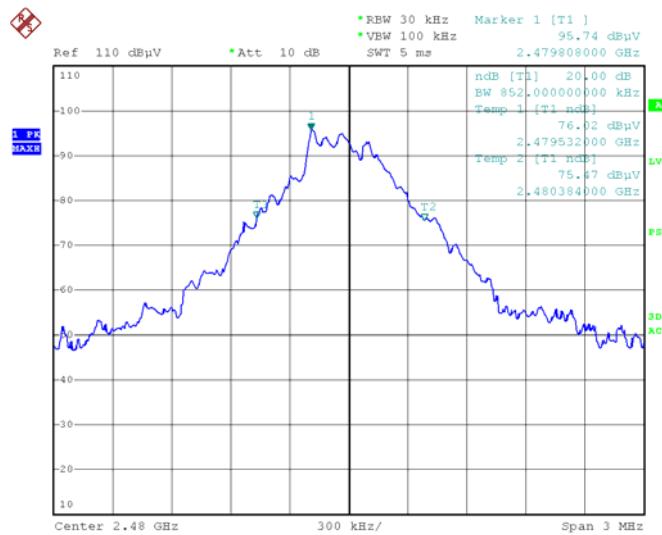
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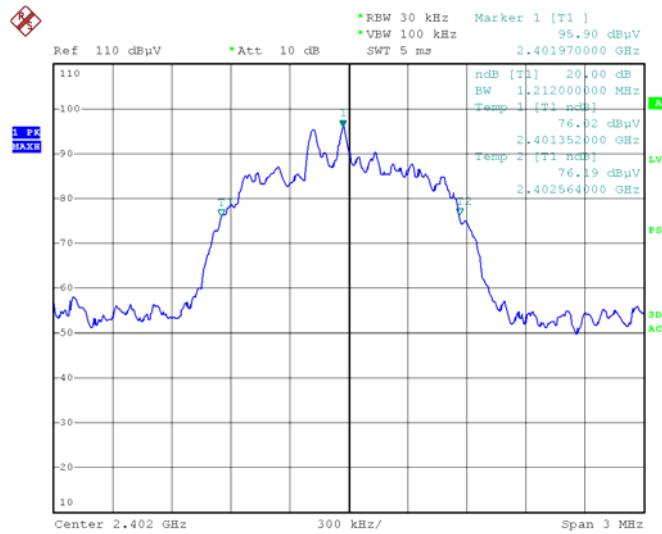
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20 dB Bandwidth (2480MHz GFSK 1M)



Date: 27.MAR.2013 11:43:01

20 dB Bandwidth (2402 MHz, $\pi/4$ -DQPSK 2M)



Date: 27.MAR.2013 11:35:43

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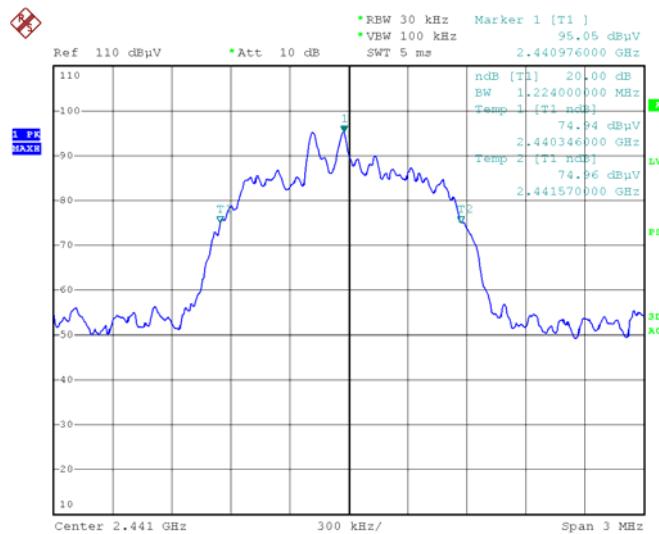
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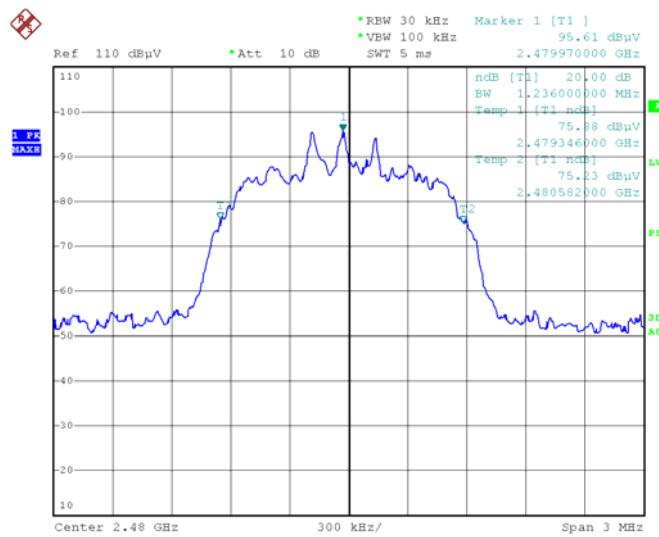
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20 dB Bandwidth (2441 MHz, $\pi/4$ -DQPSK 2M)

Date: 27.MAR.2013 11:39:37

20 dB Bandwidth (2480 MHz, $\pi/4$ -DQPSK 2M)

Date: 27.MAR.2013 11:43:44

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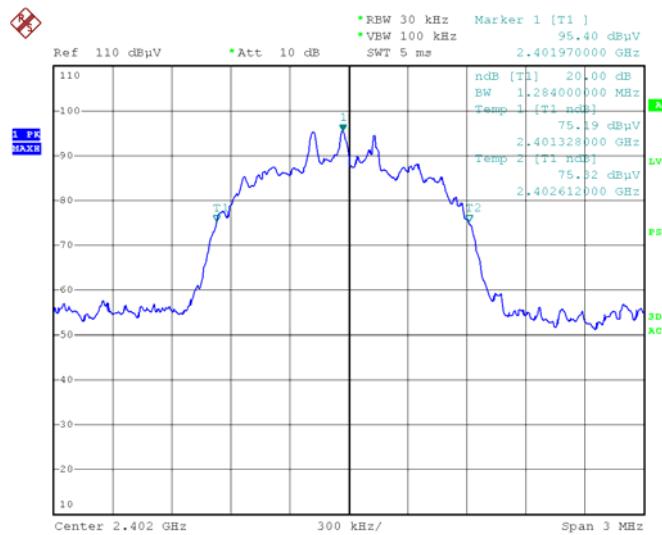
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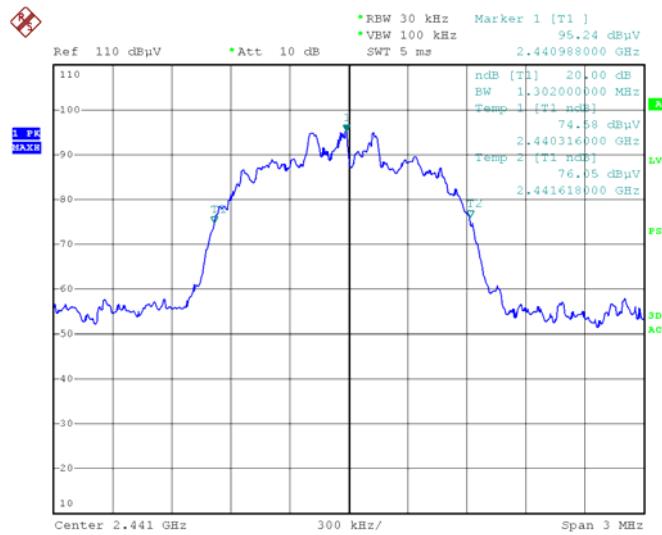
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20 dB Bandwidth (2402 MHz, 8DPSK 3M)



Date: 27.MAR.2013 11:37:43

20 dB Bandwidth (2441 MHz, 8DPSK 3M)



Date: 27.MAR.2013 11:41:50

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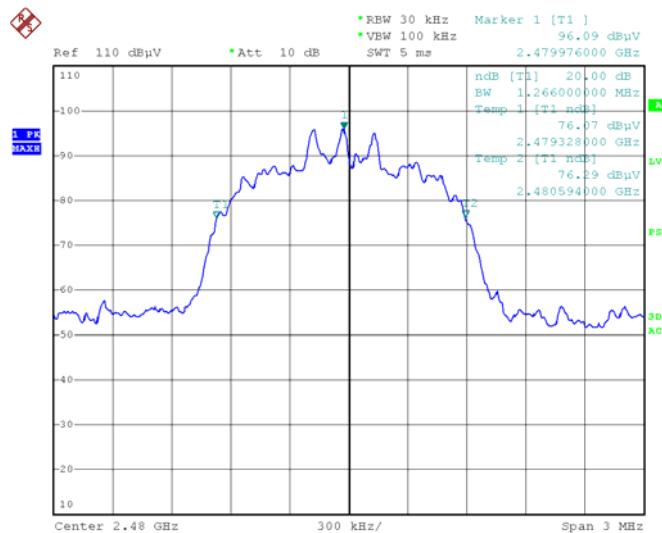
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20 dB Bandwidth (2480 MHz, 8DPSK 3M)



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11. Deviation to test specifications

The following identical model(s):

N/A

Belong to the tested device:

Product description: **Waterproof Bluetooth Speaker**
Model name: **BW-201**

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