

APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
Onkyo Sound & Vision Corporation

Wireless Music System
Model No.: ABX-N300

FCC ID: ATMABXN300

Prepared for : Onkyo Sound & Vision Corporation
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Report Number : ATE20111770
Date of Test : August 25-September 14, 2011
Date of Report : September 14, 2011

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Test Report Certification

Applicant : Onkyo Sound & Vision Corporation
Manufacturer : Zylux Acoustic Corporation
EUT Description : Wireless Music System
(A) MODEL NO.: ABX-N300
(B) SERIAL NO.: N/A
(C) POWER SUPPLY: DC 16V (Adaptor input)

Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.4: 2003**

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : August 25-September 14, 2011

Prepared by : Apple Lv
(Engineer)

Approved & Authorized Signer : Gennd
(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	Wireless Music System
Model Number	:	ABX-N300
Frequency Band	:	2412-2462MHz
Number of Channels	:	11
Antenna Gain	:	2dBi
Power Supply Adapter	:	DC 16V (Adaptor input) Model number: KSAH1600300W1US Input: AC 100-240V; 50/60Hz 1.2A Output: DC 16V; 3.0A Output line: Non-shielded, Non-detachable, 2.0m with two ferrite cores
Data Rate	:	IEEE 802.11b: 11/5.5/2/1Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6Mbps
Applicant	:	Onkyo Sound & Vision Corporation
Address	:	2-1, Nisshin-Cho, Neyagawa-Shi, Osaka 572-8540, Japan
Manufacturer	:	Zylux Acoustic Corporation
Address	:	3F, 22, Lane 35, Jihu Road, Neihu Technology Park, Taipei 11492, Taiwan
Date of sample received	:	August 25, 2011
Date of Test	:	August 25-September 14, 2011

1.2. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee
for Laboratories
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD
Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

1.3. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 15, 2012
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 15, 2012
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 15, 2012
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 15, 2012
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2012
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2012
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2012
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 15, 2012
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 15, 2012
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 15, 2012
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 15, 2012
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 15, 2012

3. OPERATION OF EUT DURING TESTING

3.1. Operating Mode

The mode is used: **802.11b Transmitting mode**

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

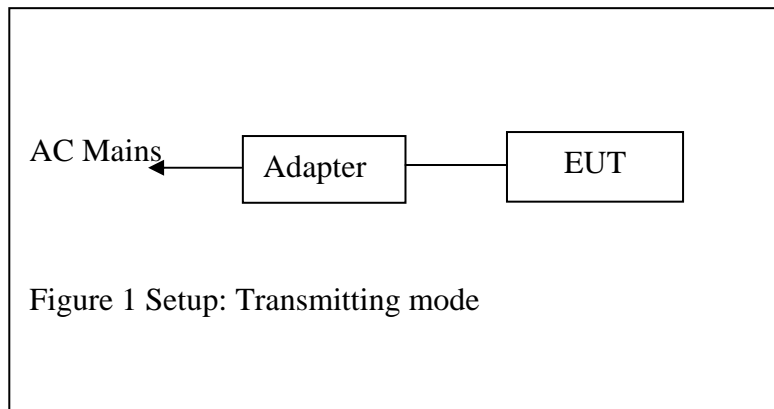
802.11g Transmitting mode

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

3.2. Configuration and peripherals

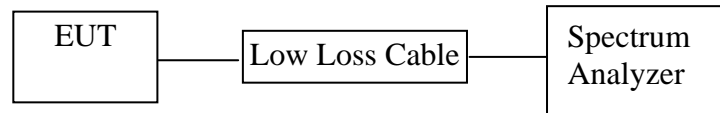


4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.247(a)(2)	6dB Bandwidth Test	Compliant
Section 15.247(e)	Power Spectral Density Test	Compliant
Section 15.247(b)(3)	Maximum Peak Output Power Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.247(d) Section 15.209	Radiated Spurious Emission Test	Compliant
Section 15.247(d)	Antenna Conducted Spurious Emission Test	Compliant
Section 15.207	AC Power Line Conducted Emission Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. 6DB BANDWIDTH MEASUREMENT

5.1. Block Diagram of Test Setup



(EUT: Wireless Music System)

5.2. The Requirement For Section 15.247(a)(2)

Section 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.3. EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1. Wireless Music System (EUT)

Model Number : ABX-N300
 Serial Number : N/A
 Manufacturer : Zylux Acoustic Corporation

5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

5.5. Test Procedure

5.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

5.5.2. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

5.5.3. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

5.6. Test Result

PASS.

Date of Test:	<u>September 3, 2011</u>	Temperature:	<u>25°C</u>
EUT:	<u>Wireless Music System</u>	Humidity:	<u>50%</u>
Model No.:	<u>ABX-N300</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Pei</u>

The test was performed with 802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	11.28	> 0.5MHz
Middle	2437	11.24	> 0.5MHz
High	2462	10.52	> 0.5MHz

The test was performed with 802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	16.44	> 0.5MHz
Middle	2437	16.44	> 0.5MHz
High	2462	16.44	> 0.5MHz

The spectrum analyzer plots are attached as below.

802.11b Channel Middle 2437MHz

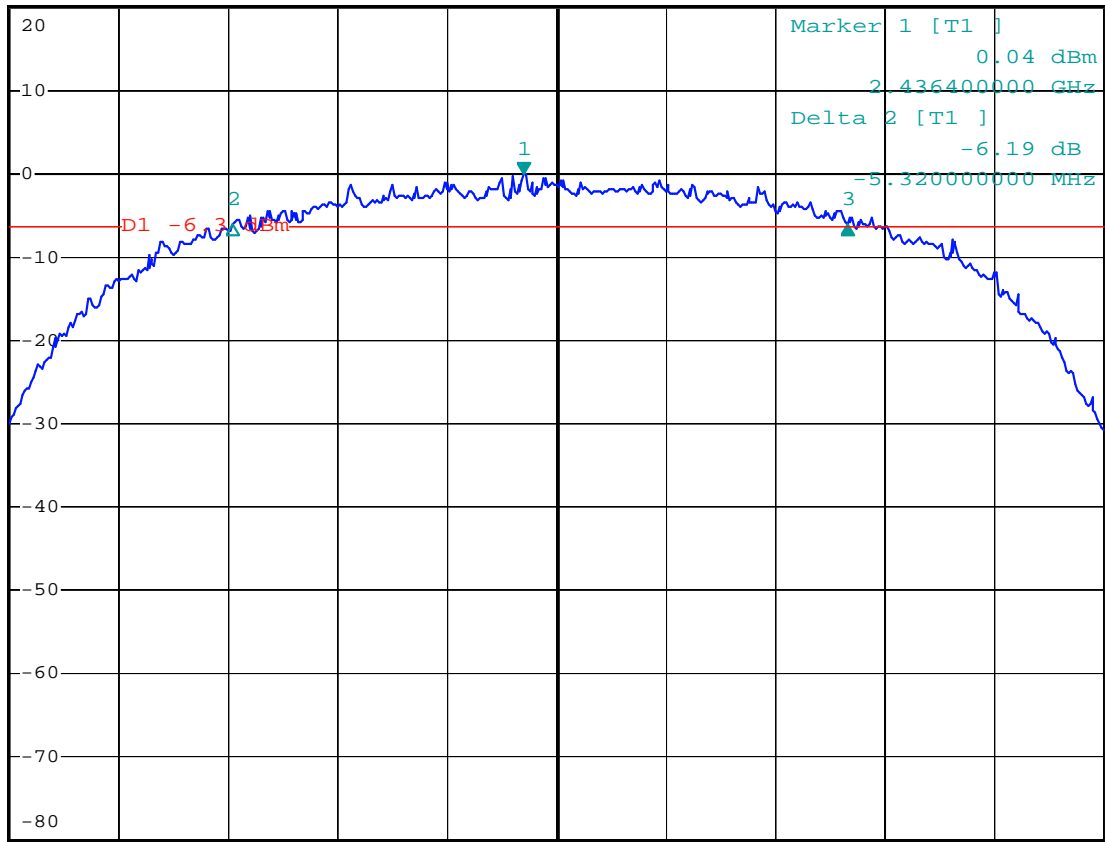


*RBW 100 kHz Delta 3 [T1]
*VBW 300 kHz -6.13 dB
*SWT 2.5 ms 5.920000000 MHz

Ref 20 dBm

Att 50 dB

1 PK
MAXH



Center 2.437 GHz

2 MHz/

Span 20 MHz

Date: 8.SEP.2011 10:04:48

802.11b Channel High 2462MHz

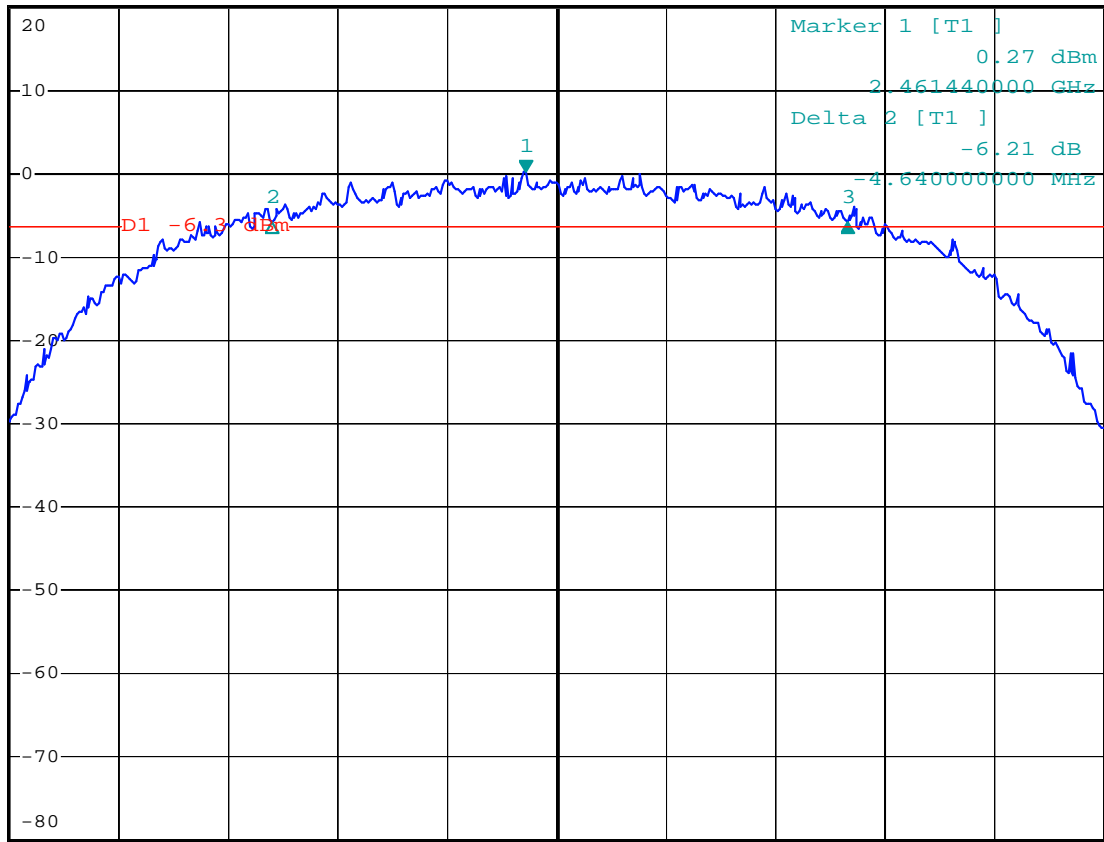


*RBW 100 kHz Delta 3 [T1]
*VBW 300 kHz -6.05 dB
*SWT 2.5 ms 5.880000000 MHz

Ref 20 dBm

Att 50 dB

1 PK
MAXH



3DB

Date: 8.SEP.2011 10:12:21

802.11g Channel Low 2412MHz

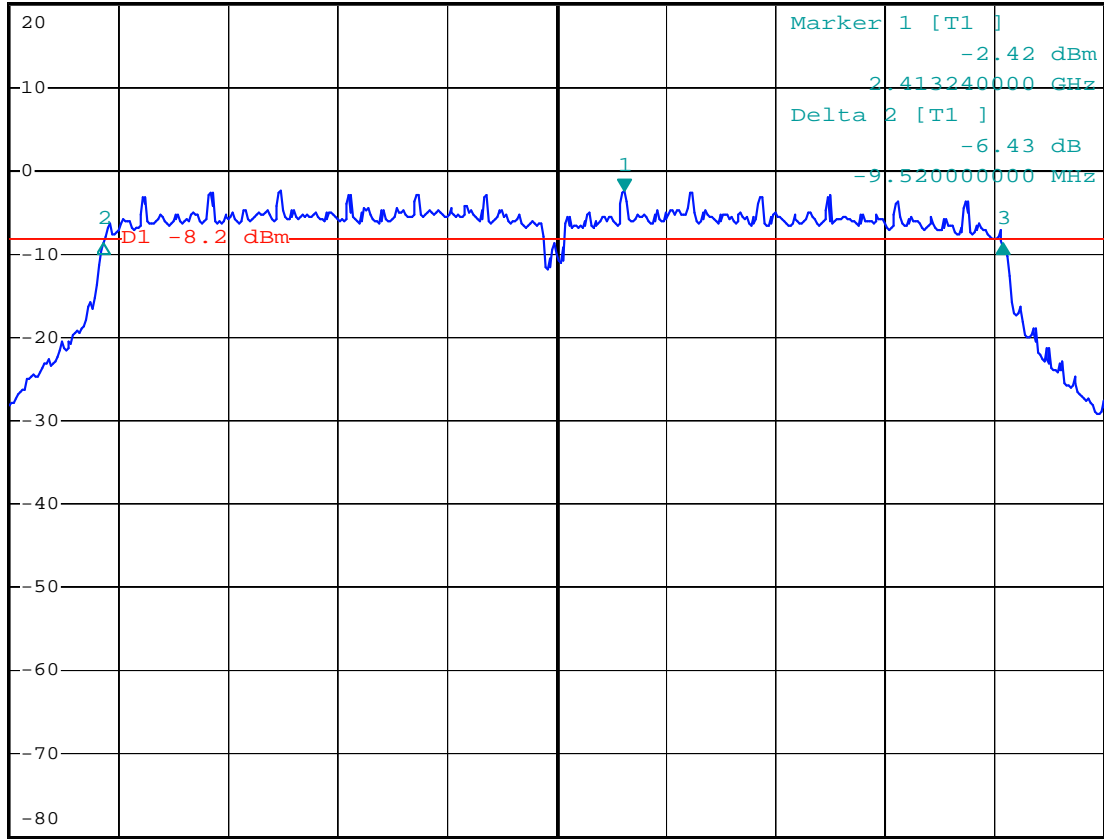


*RBW 100 kHz Delta 3 [T1]
*VBW 300 kHz -6.41 dB
*SWT 2.5 ms 6.920000000 MHz

Ref 20 dBm

Att 50 dB

1 PK
MAXH



Center 2.412 GHz

2 MHz/

Span 20 MHz

Date: 3.SEP.2011 17:21:59

802.11g Channel Middle 2437MHz

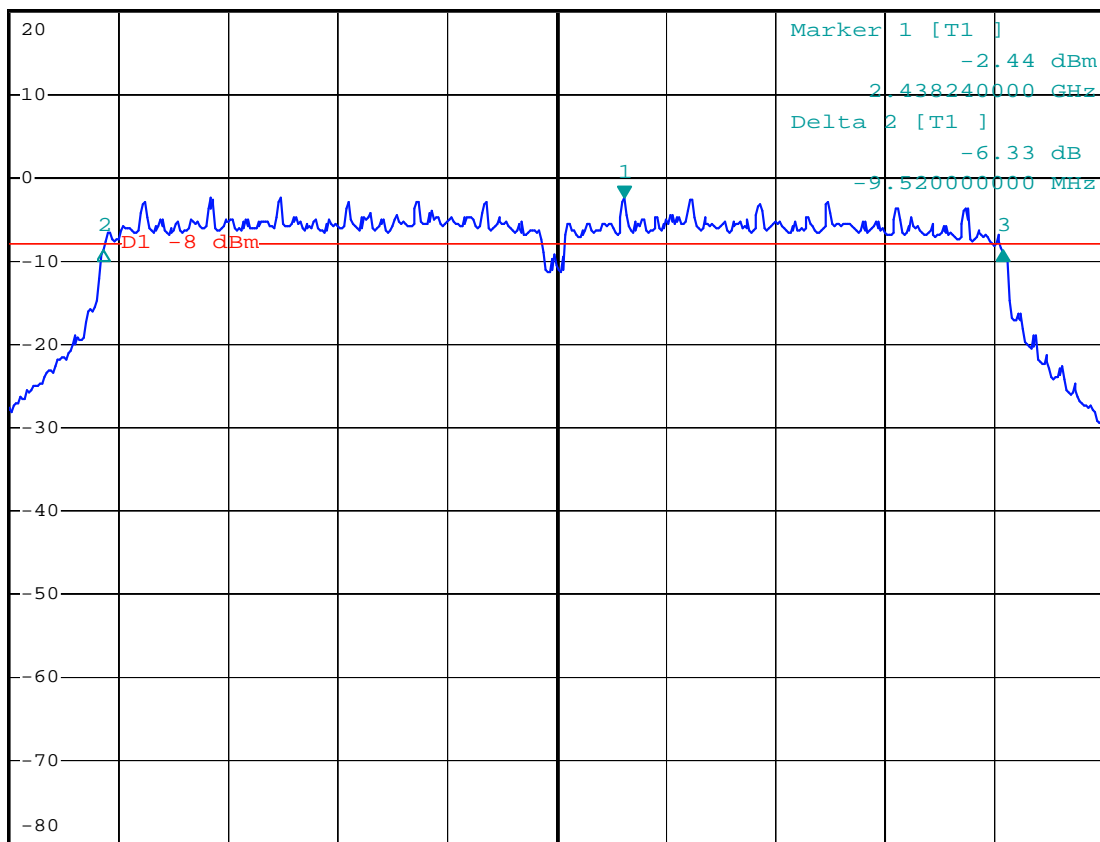


*RBW 100 kHz Delta 3 [T1]
*VBW 300 kHz -6.38 dB
*SWT 2.5 ms 6.920000000 MHz

Ref 20 dBm

Att 50 dB

1 PK
MAXH



Center 2.437 GHz

2 MHz/

Span 20 MHz

Date: 3.SEP.2011 17:27:36

802.11g Channel High 2462MHz

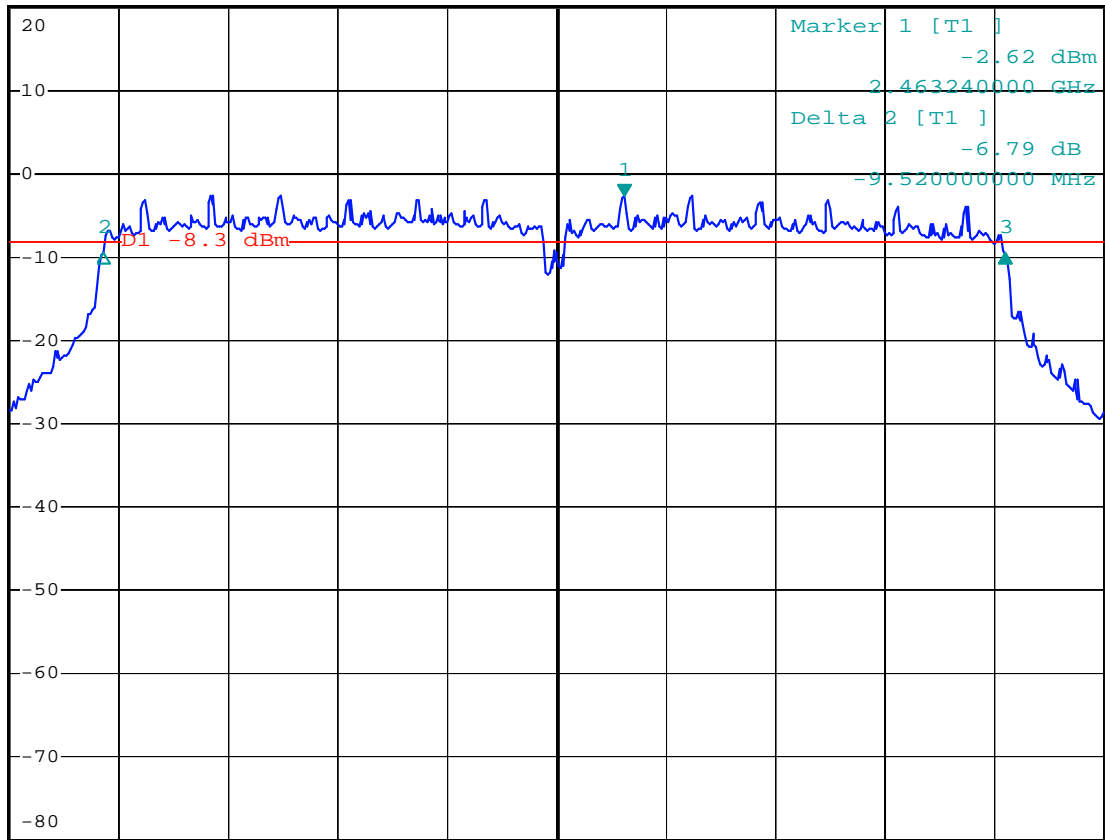


*RBW 100 kHz Delta 3 [T1]
*VBW 300 kHz -6.82 dB
*SWT 2.5 ms 6.960000000 MHz

Ref 20 dBm

Att 50 dB

1 PK
MAXH



Center 2.462 GHz

2 MHz/

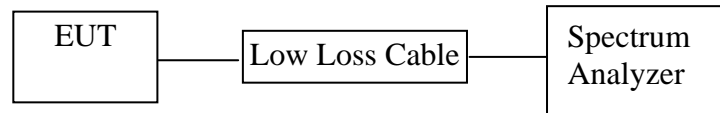
Span 20 MHz

3DB

Date: 3.SEP.2011 17:54:31

6. MAXIMUM PEAK OUTPUT POWER

6.1. Block Diagram of Test Setup



(EUT: Wireless Music System)

6.2. The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

6.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.3.1. Wireless Music System (EUT)

Model Number : ABX-N300
 Serial Number : N/A
 Manufacturer : Zylux Acoustic Corporation

6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

6.5. Test Procedure

6.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

6.5.2. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz.

6.5.3. Measurement the maximum peak output power.

6.6. Test Result

PASS.

Date of Test:	<u>September 3, 2011</u>	Temperature:	<u>25°C</u>
EUT:	<u>Wireless Music System</u>	Humidity:	<u>50%</u>
Model No.:	<u>ABX-N300</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Pei</u>

The test was performed with 802.11b				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	15.82	38.19	30 dBm / 1 W
Middle	2437	16.00	39.81	30 dBm / 1 W
High	2462	16.08	40.55	30 dBm / 1 W

The test was performed with 802.11g				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	17.68	58.61	30 dBm / 1 W
Middle	2437	17.51	56.36	30 dBm / 1 W
High	2462	17.48	55.98	30 dBm / 1 W

The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz

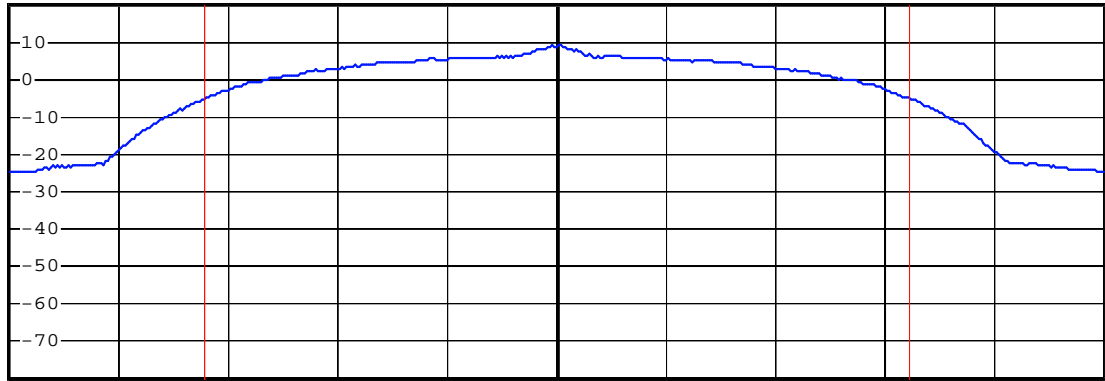


* RBW 1 MHz
* VBW 3 MHz
* SWT 2.5 ms

Ref 20 dBm

Att 40 dB

1 PK
MAXH



Center 2.412 GHz

2.5 MHz/

Span 25 MHz

Tx Channel

Bandwidth

16.04 MHz

Power

15.82 dBm

Date: 8.SEP.2011 09:18:47

802.11b Channel Middle 2437MHz

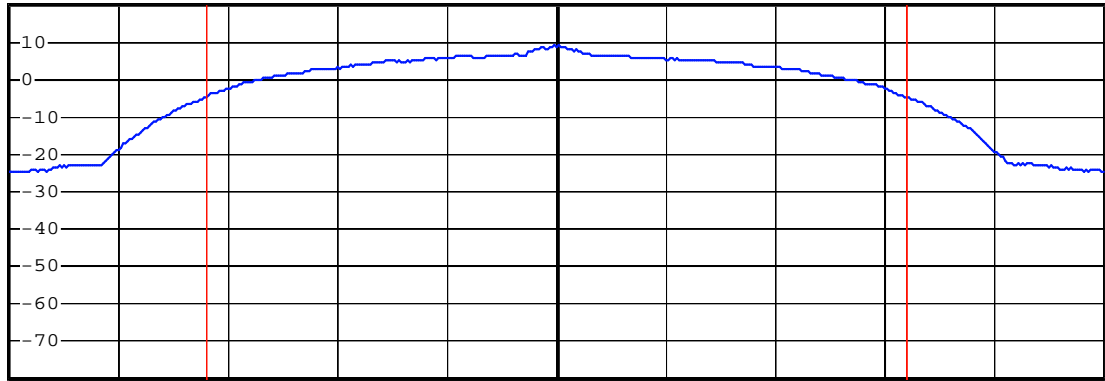


* RBW 1 MHz
* VBW 3 MHz
* SWT 2.5 ms

Ref 20 dBm

Att 40 dB

1 PK
MAXH



Center 2.437 GHz

2.5 MHz/

Span 25 MHz

Tx Channel

Bandwidth

16 MHz

Power

16.00 dBm

Date: 8.SEP.2011 10:08:17

802.11b Channel High 2462MHz

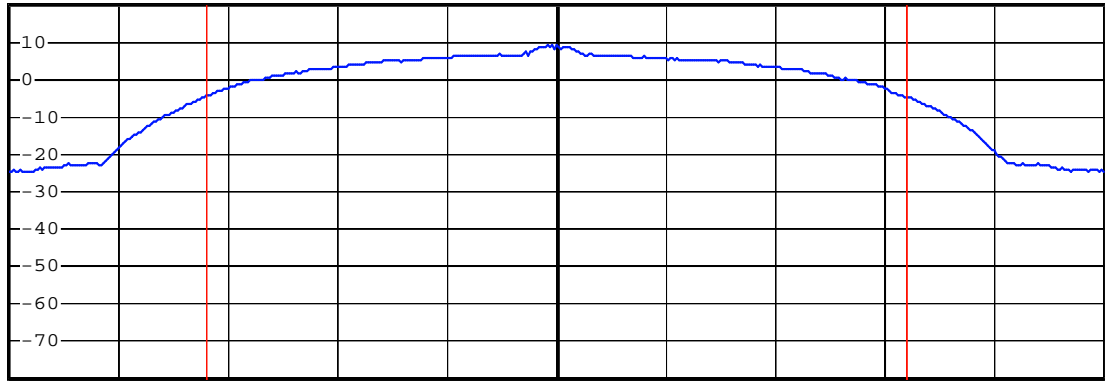


* RBW 1 MHz
* VBW 3 MHz
* SWT 2.5 ms

Ref 20 dBm

Att 40 dB

1 PK
MAXH



Center 2.462 GHz

2.5 MHz/

Span 25 MHz

Tx Channel

Bandwidth

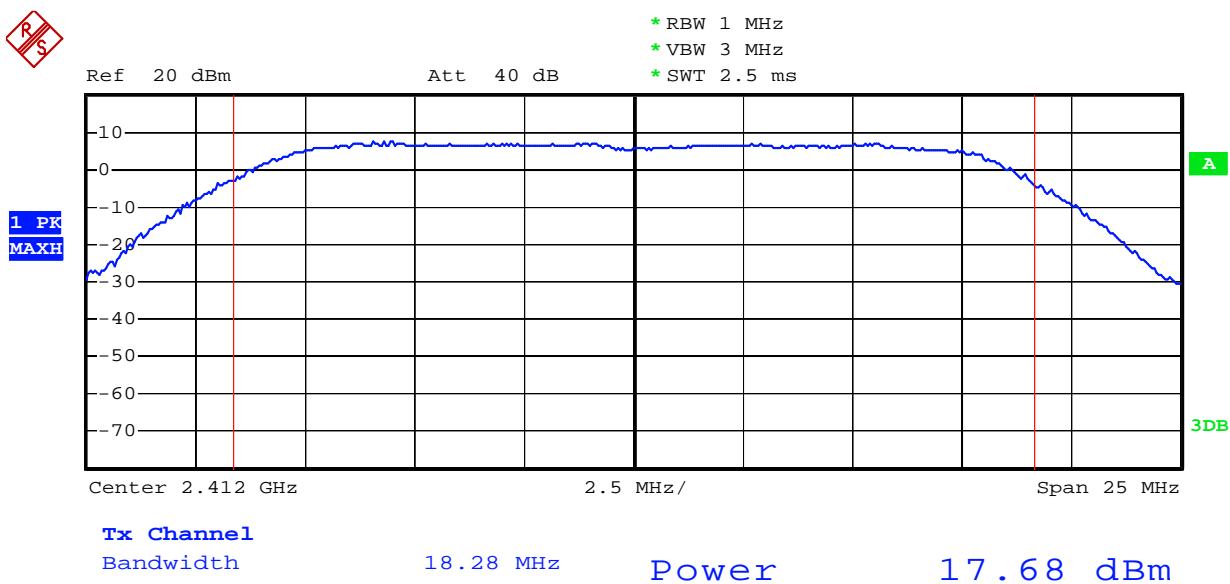
15.92 MHz

Power

16.08 dBm

Date: 8.SEP.2011 10:16:04

802.11g Channel Low 2412MHz

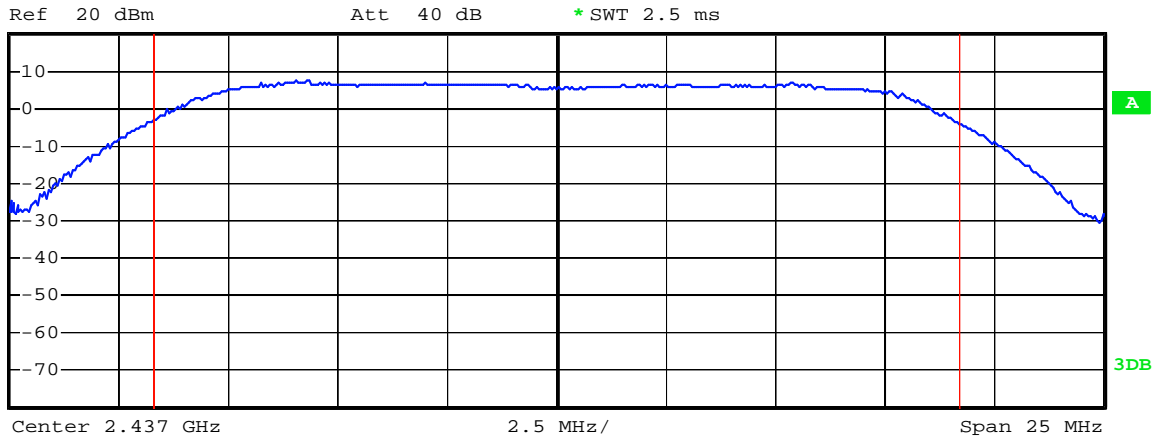


Date: 3.SEP.2011 18:48:25

802.11g Channel Middle 2437MHz



* RBW 1 MHz
* VBW 3 MHz
* SWT 2.5 ms



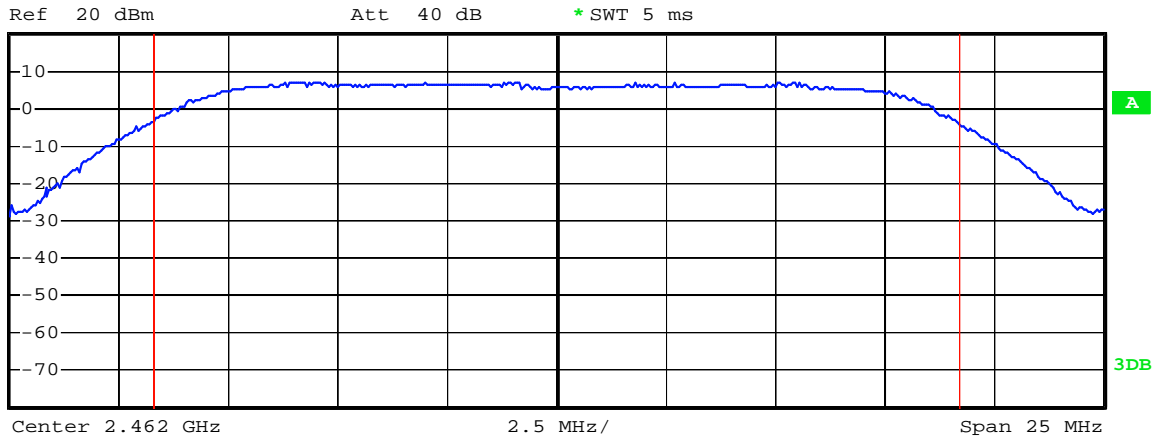
Tx Channel
Bandwidth 18.36 MHz Power 17.51 dBm

Date: 3.SEP.2011 18:38:50

802.11g Channel High 2462MHz



* RBW 1 MHz
* VBW 3 MHz
* SWT 5 ms

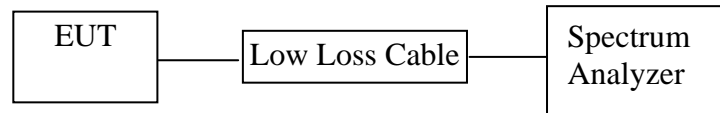


Tx Channel
Bandwidth 18.36 MHz Power 17.48 dBm

Date: 3.SEP.2011 18:09:11

7. POWER SPECTRAL DENSITY MEASUREMENT

7.1. Block Diagram of Test Setup



(EUT: Wireless Music System)

7.2. The Requirement For Section 15.247(e)

Section 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.3.1. Wireless Music System (EUT)

Model Number : ABX-N300
 Serial Number : N/A
 Manufacturer : Zylux Acoustic Corporation

7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

7.5. Test Procedure

7.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2. Set RBW of spectrum analyzer to 3kHz and VBW to 10kHz, sweep time = Span/3kHz.

7.5.3. Measurement the maximum power spectral density.

7.6. Test Result

PASS.

Date of Test:	<u>September 8, 2011</u>	Temperature:	<u>25°C</u>
EUT:	<u>Wireless Music System</u>	Humidity:	<u>50%</u>
Model No.:	<u>ABX-N300</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Pei</u>

The test was performed with 802.11b			
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-6.93	8 dBm
Middle	2437	-6.65	8 dBm
High	2462	-6.51	8 dBm

The test was performed with 802.11g			
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-13.74	8 dBm
Middle	2437	-13.66	8 dBm
High	2462	-13.80	8 dBm

The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz

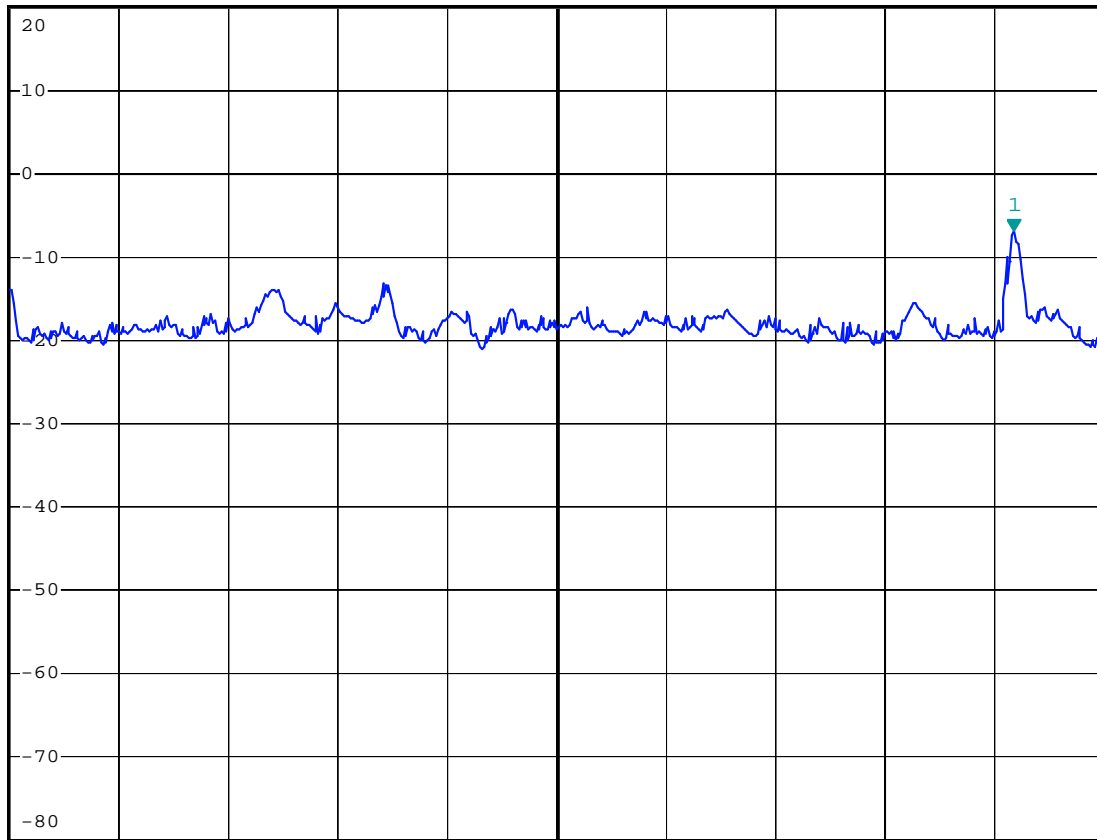


*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -6.93 dBm
*SWT 100 s 2.412125400 GHz

Ref 20 dBm

Att 50 dB

1 PK
MAXH



Center 2.412 GHz

30 kHz/

Span 300 kHz

Date: 8.SEP.2011 09:47:10

802.11b Channel Middle 2437MHz

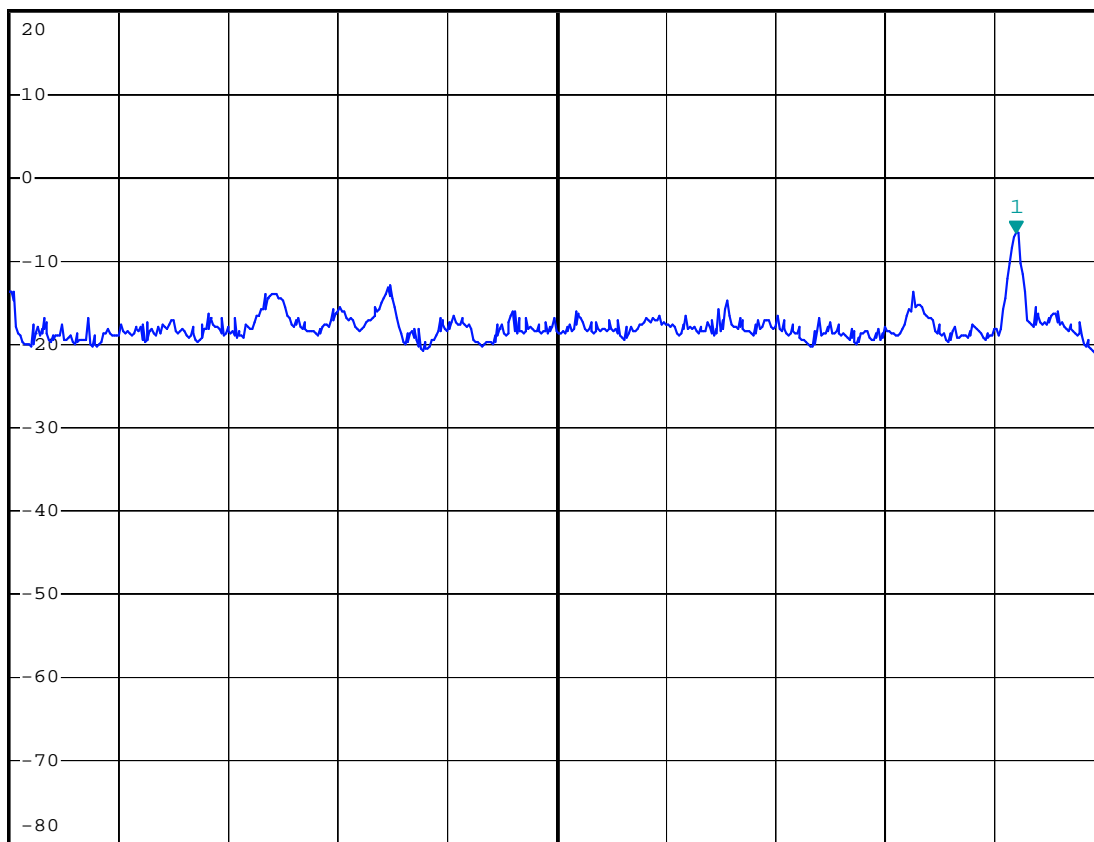


*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -6.65 dBm
*SWT 100 s 2.437126000 GHz

Ref 20 dBm

Att 50 dB

1 PK
MAXH



Center 2.437 GHz

30 kHz/

Span 300 kHz

Date: 8.SEP.2011 10:02:41

802.11b Channel High 2462MHz

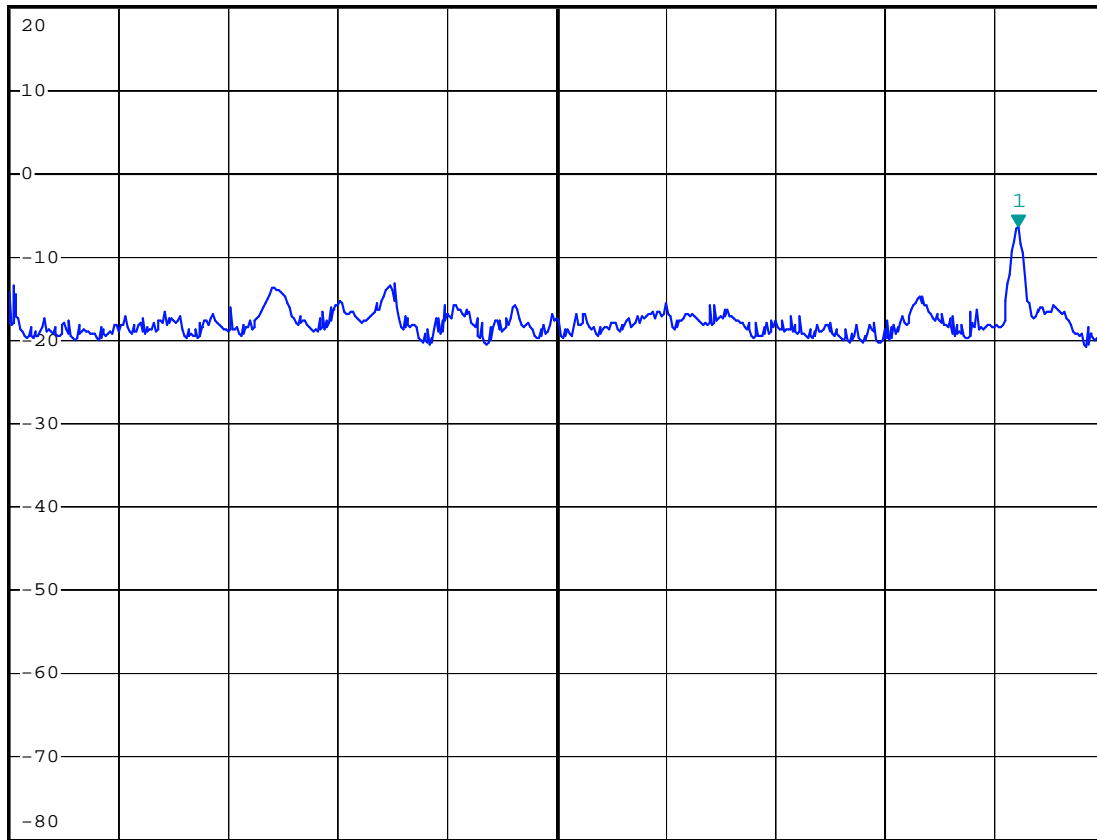


*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -6.51 dBm
*SWT 100 s 2.462126600 GHz

Ref 20 dBm

Att 50 dB

1 PK
MAXH



Center 2.462 GHz

30 kHz/

Span 300 kHz

Date: 8.SEP.2011 10:22:14

802.11g Channel Low 2412MHz

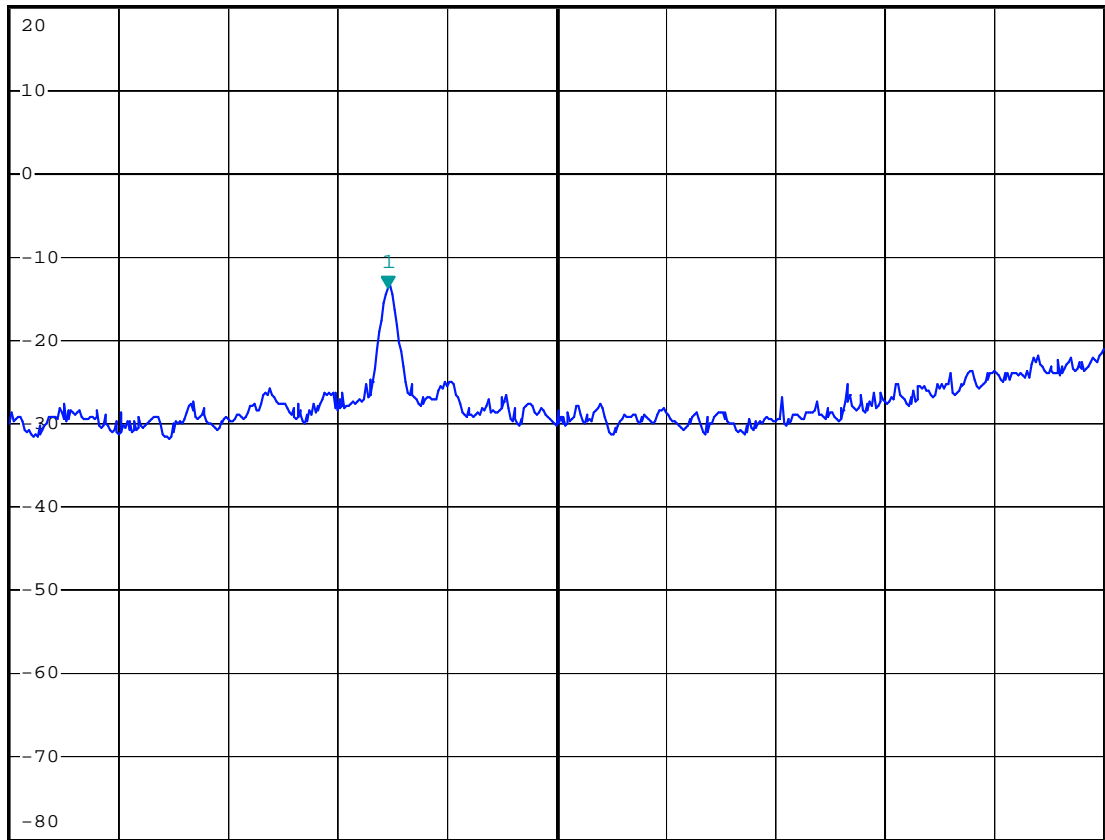


*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -13.74 dBm
*SWT 100 s 2.411953800 GHz

Ref 20 dBm

Att 50 dB

1 PK
MAXH



Center 2.412 GHz

30 kHz/

Span 300 kHz

802.11g Channel Middle 2437MHz

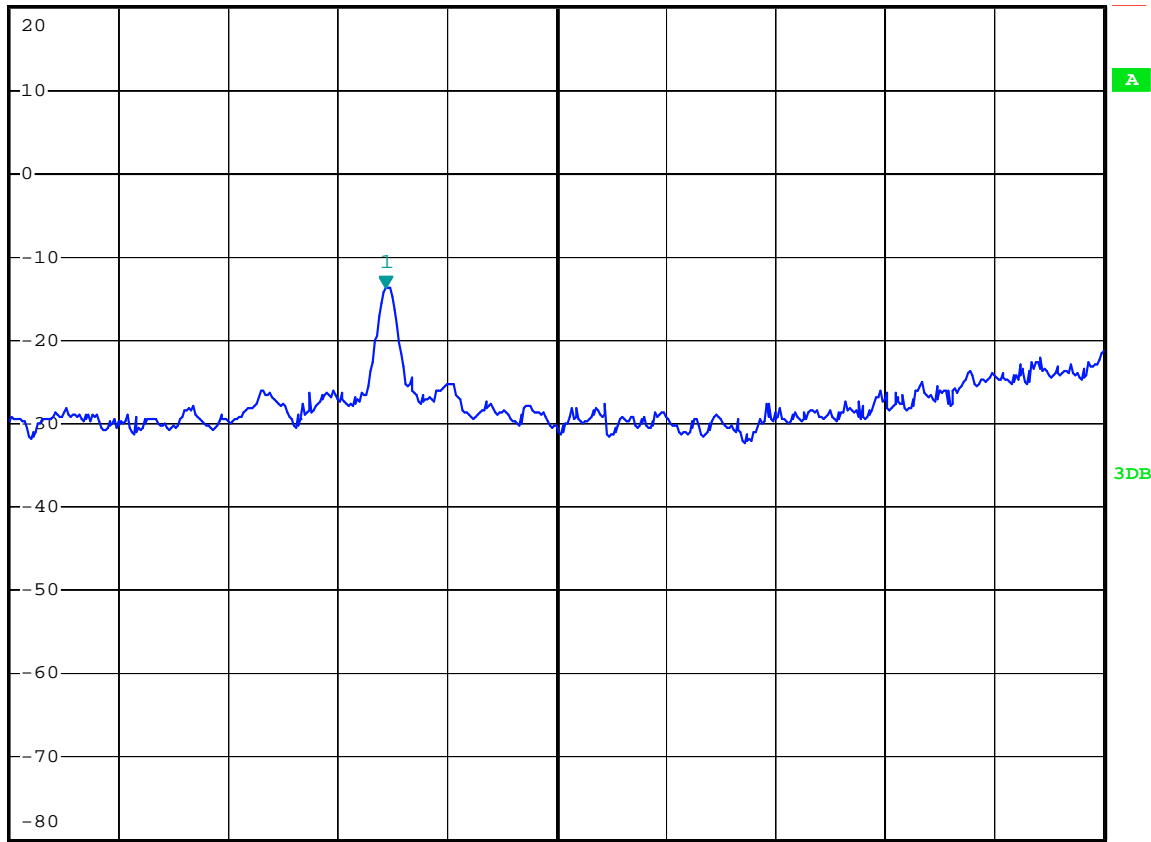


*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -13.66 dBm
*SWT 100 s 2.436953200 GHz

Ref 20 dBm

Att 50 dB

1 PK
MAXH



Center 2.437 GHz

30 kHz/

Span 300 kHz

Date: 8.SEP.2011 19:34:04

802.11g Channel High 2462MHz

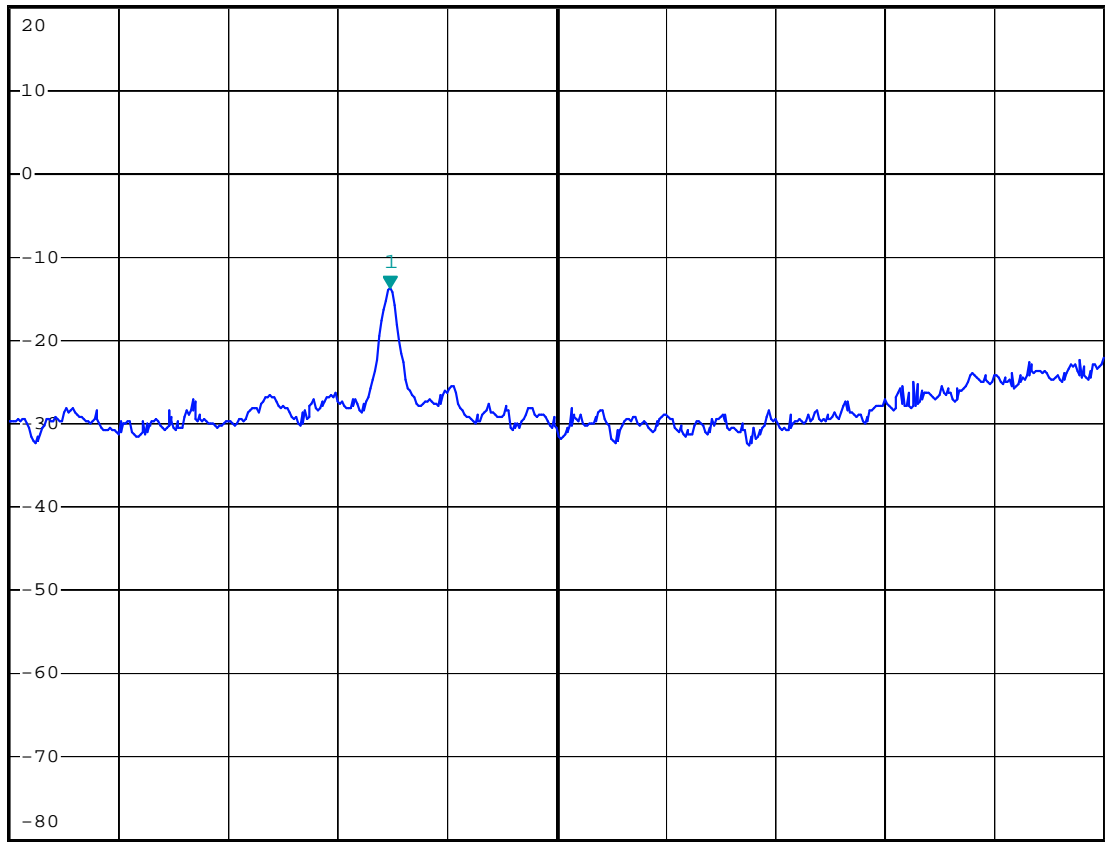


*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -13.80 dBm
*SWT 100 s 2.461954400 GHz

Ref 20 dBm

Att 50 dB

1 PK
MAXH



Center 2.462 GHz

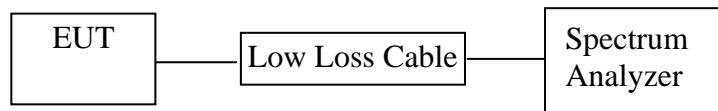
30 kHz/

Span 300 kHz

Date: 8.SEP.2011 20:07:58

8. BAND EDGE COMPLIANCE TEST

8.1. Block Diagram of Test Setup



(EUT: Wireless Music System)

8.2. The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

8.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.3.1. Wireless Music System (EUT)

Model Number	:	ABX-N300
Serial Number	:	N/A
Manufacturer	:	Zylux Acoustic Corporation

8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 8.1.

8.4.2. Turn on the power of all equipment.

8.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2462MHz TX frequency to transmit.

8.5. Test Procedure

Conducted Band Edge:

8.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

8.5.2. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

Radiate Band Edge:

8.5.3. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.

8.5.4. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

8.5.5. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

8.5.6. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

RBW=1MHz, VBW=1MHz

8.5.7. The band edges was measured and recorded.

8.6. Test Result

Pass**Conducted test**

Date of Test:	<u>September 8, 2011</u>	Temperature:	<u>25°C</u>
EUT:	<u>Wireless Music System</u>	Humidity:	<u>50%</u>
Model No.:	<u>ABX-N300</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Pei</u>

The test was performed with 802.11b

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	39.04	> 20dBc
2462	42.72	> 20dBc

The test was performed with 802.11g

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	39.54	> 20dBc
2462	36.45	> 20dBc

802.11b Channel Low 2412MHz

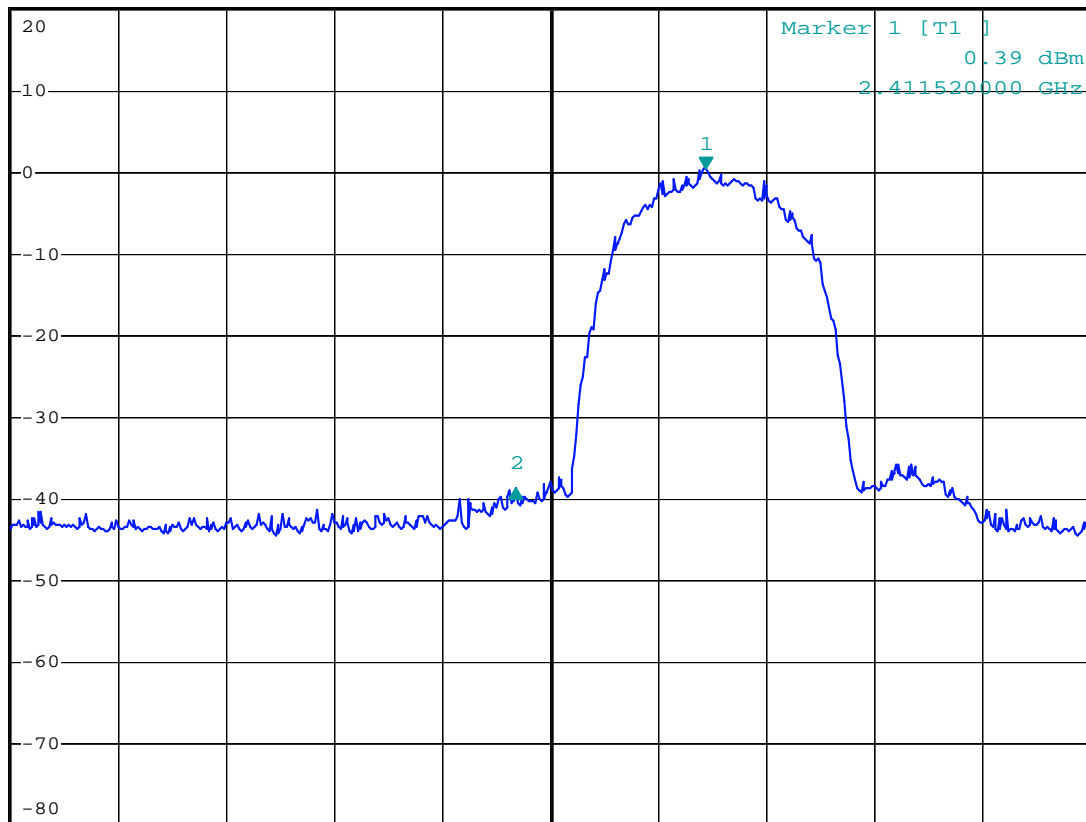


*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -39.04 dB
*SWT 10 ms -14.080000000 MHz

Ref 20 dBm

Att 50 dB

1 PK
MAXH



Center 2.4 GHz

8 MHz/

Span 80 MHz

Date: 16.SEP.2011 20:35:32

802.11b Channel High 2462MHz

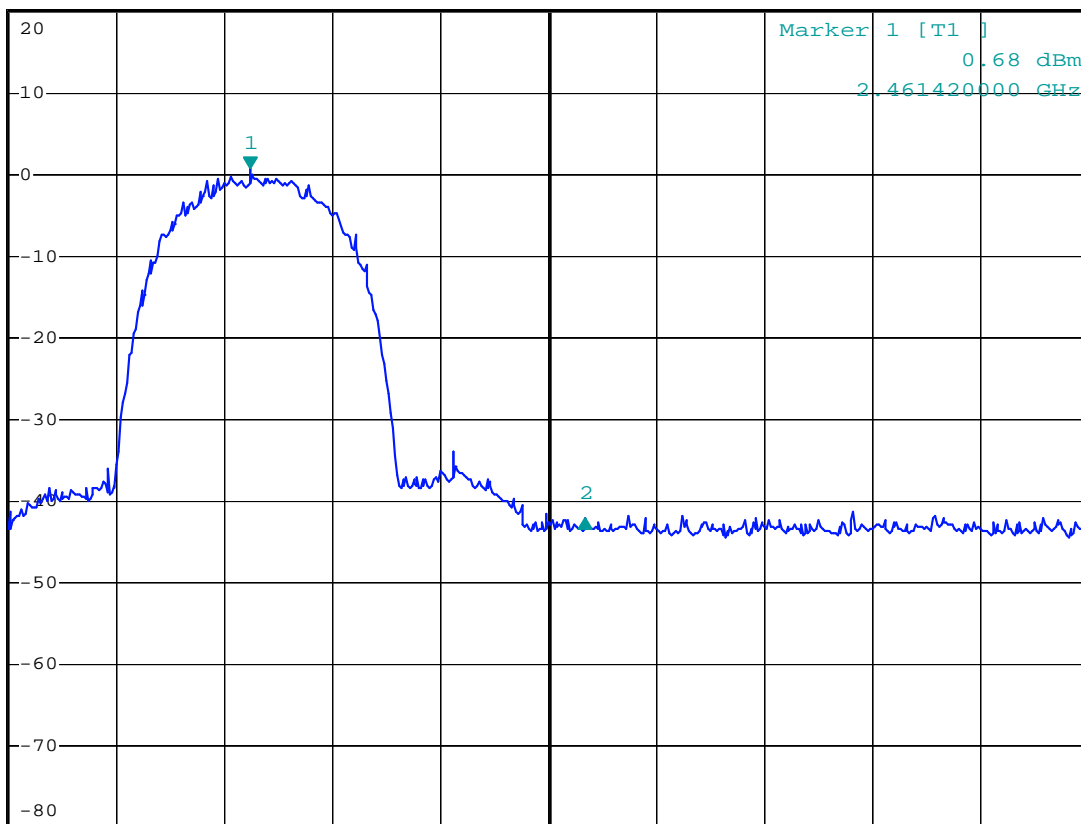


*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -42.72 dB
*SWT 10 ms 24.800000000 MHz

Ref 20 dBm

Att 50 dB

1 PK
MAXH



Center 2.4835 GHz

8 MHz/

Span 80 MHz

Date: 16.SEP.2011 20:39:33

802.11g Channel Low 2412MHz

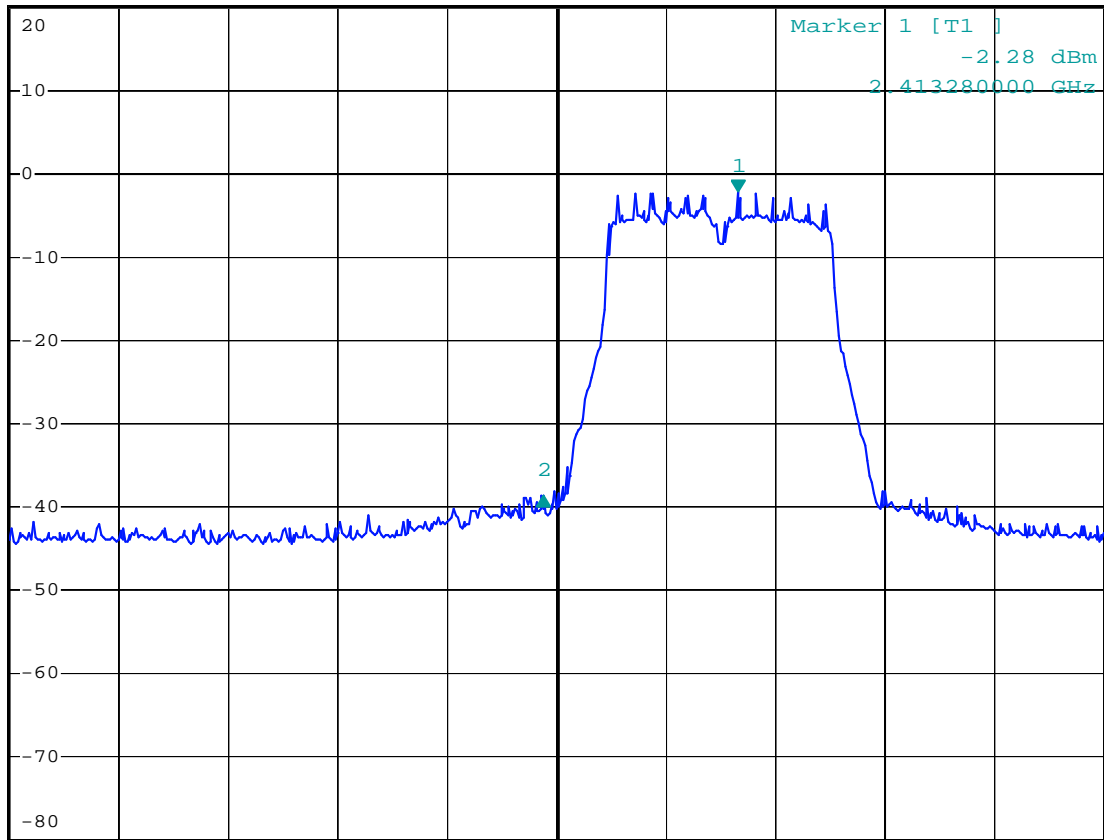


*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -36.45 dB
*SWT 10 ms -14.240000000 MHz

Ref 20 dBm

Att 50 dB

1 PK
MAXH



Center 2.4 GHz

8 MHz/

Span 80 MHz

Date: 8.SEP.2011 18:13:37

802.11g Channel High 2462MHz

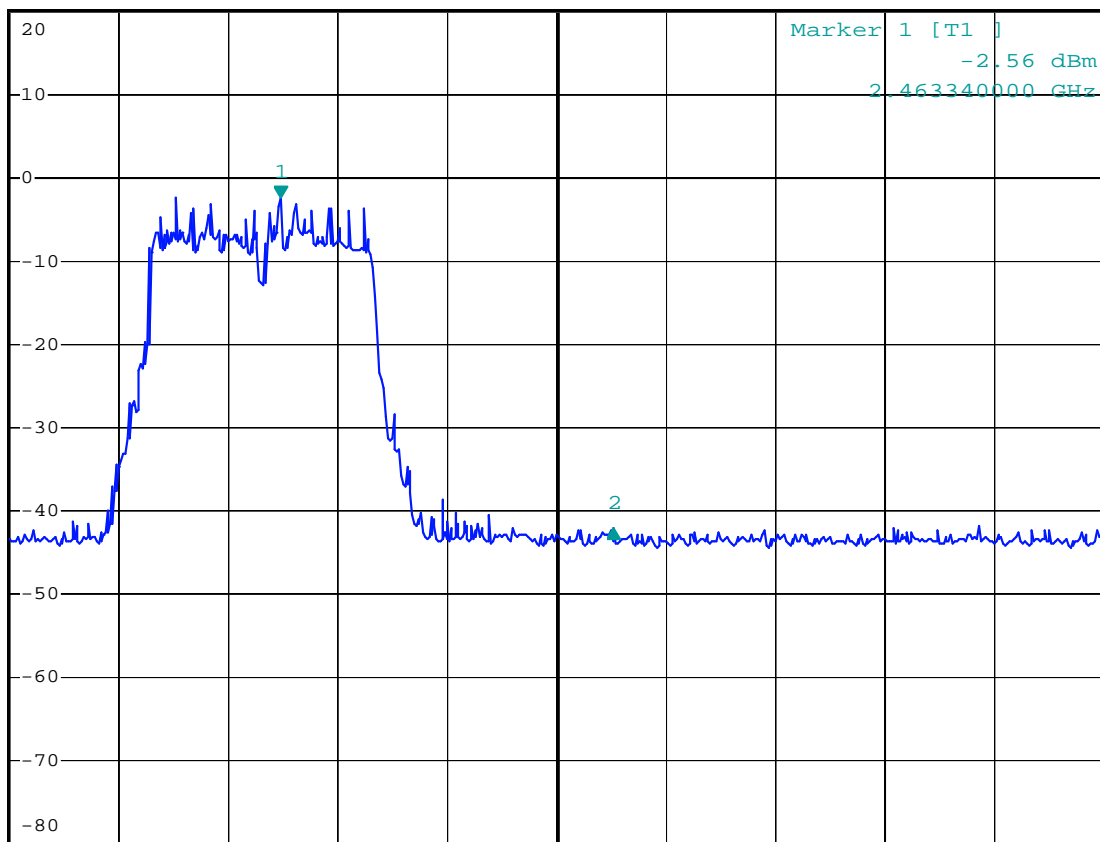


*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -39.54 dB
*SWT 10 ms 24.320000000 MHz

Ref 20 dBm

Att 50 dB

1 PK
MAXH



Center 2.4835 GHz

8 MHz/

Span 80 MHz

Date: 8.SEP.2011 18:53:24

Radiated Band Edge Result

Date of Test:	<u>September 12, 2011</u>	Temperature:	<u>25°C</u>
EUT:	<u>Wireless Music System</u>	Humidity:	<u>50%</u>
Model No.:	<u>ABX-N300</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>802.11b Channel Low 2412MHz</u>	Test Engineer:	<u>Pei</u>

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$
3. Display the measurement of peak values.

Date of Test:	<u>September 12, 2011</u>	Temperature:	<u>25°C</u>
EUT:	<u>Wireless Music System</u>	Humidity:	<u>50%</u>
Model No.:	<u>ABX-N300</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>802.11b Channel High 2462MHz</u>	Test Engineer:	<u>Pei</u>

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.

Date of Test:	<u>September 12, 2011</u>	Temperature:	<u>25°C</u>
EUT:	<u>Wireless Music System</u>	Humidity:	<u>50%</u>
Model No.:	<u>ABX-N300</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>802.11g Channel Low 2412MHz</u>	Test Engineer:	<u>Pei</u>

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$
3. Display the measurement of peak values.

Date of Test:	<u>September 12, 2011</u>	Temperature:	<u>25°C</u>
EUT:	<u>Wireless Music System</u>	Humidity:	<u>50%</u>
Model No.:	<u>ABX-N300</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>802.11g Channel High 2462MHz</u>	Test Engineer:	<u>Pei</u>

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.



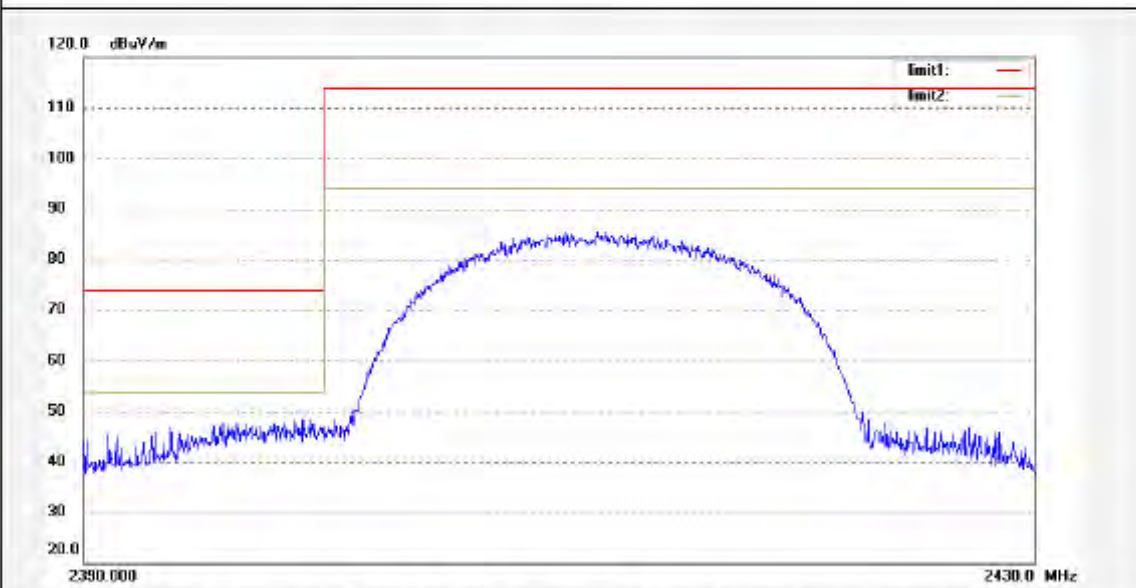
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #931	Polarization: Horizontal
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 19:42:26
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11b)	Distance: 3m
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
	2380.000	~40		~40	~75	~35				
	2400.000	~85		~85	~75	~10				
	2420.000	~85		~85	~75	~10				
	2430.000	~40		~40	~75	~35				



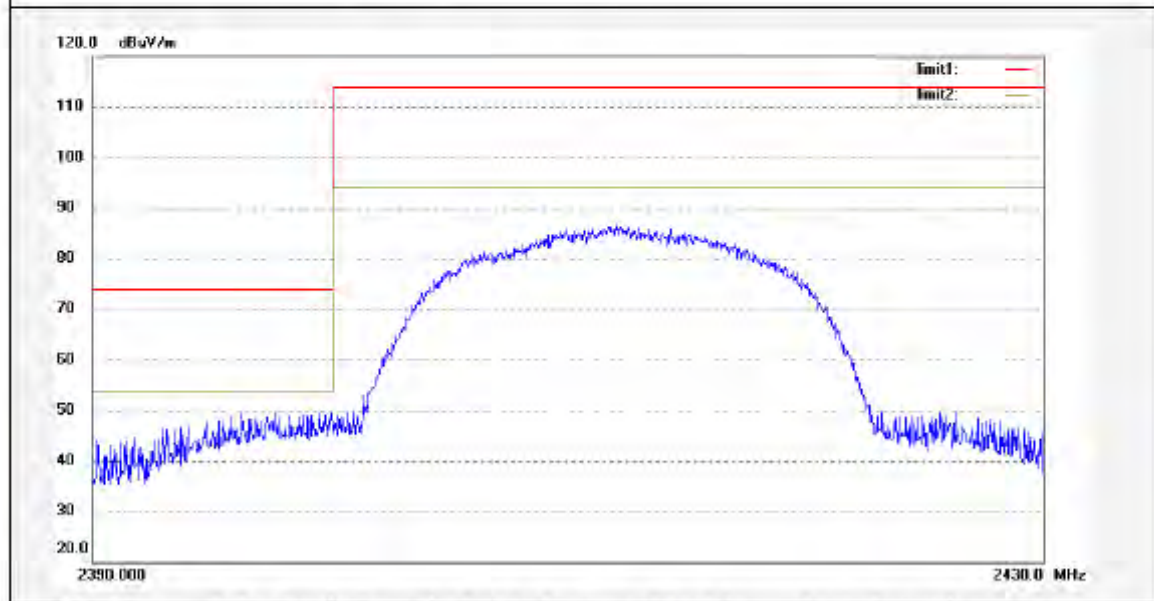
ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #932	Polarization: Vertical
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 19:44:12
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11b)	Distance: 3m
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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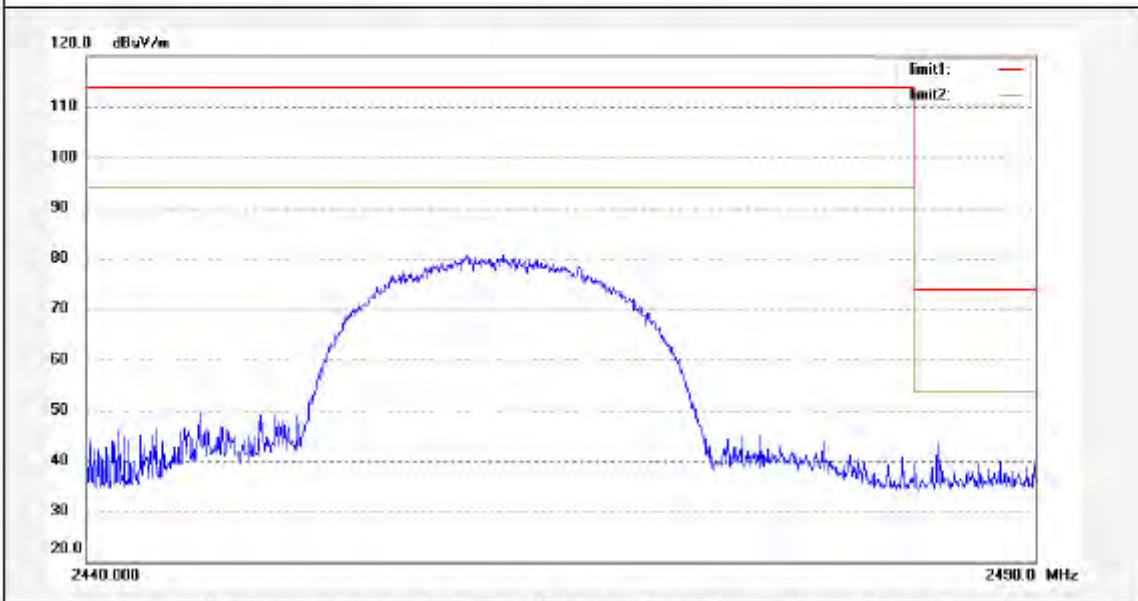
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #933	Polarization: Horizontal
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 19:49:02
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11b)	Distance: 3m
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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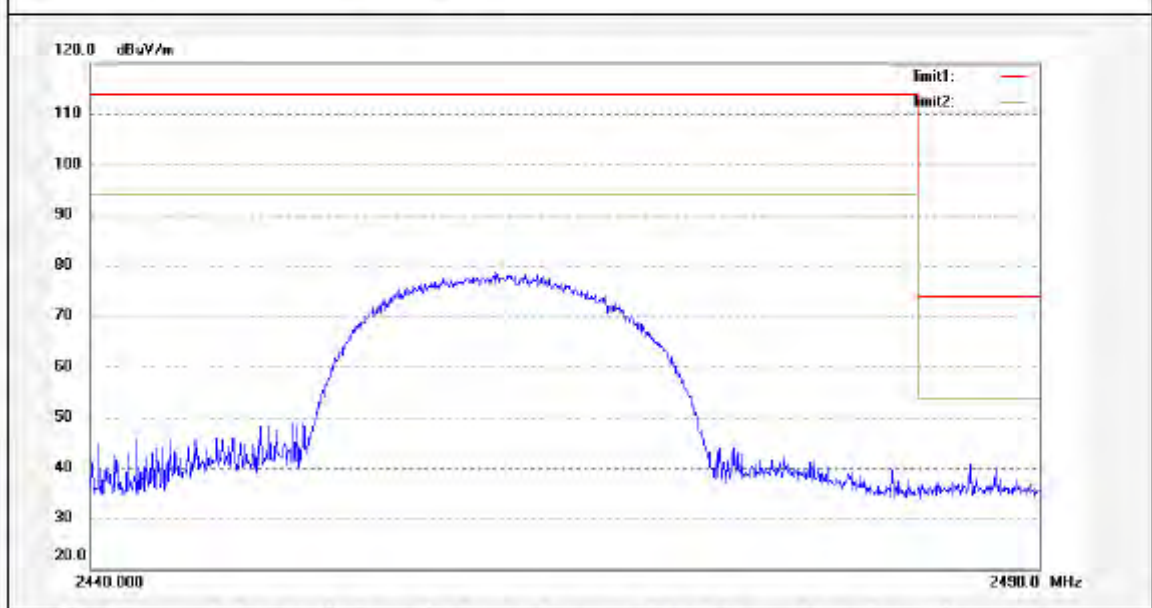
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #934	Polarization: Vertical
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 19:50:37
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11b)	Distance: 3m
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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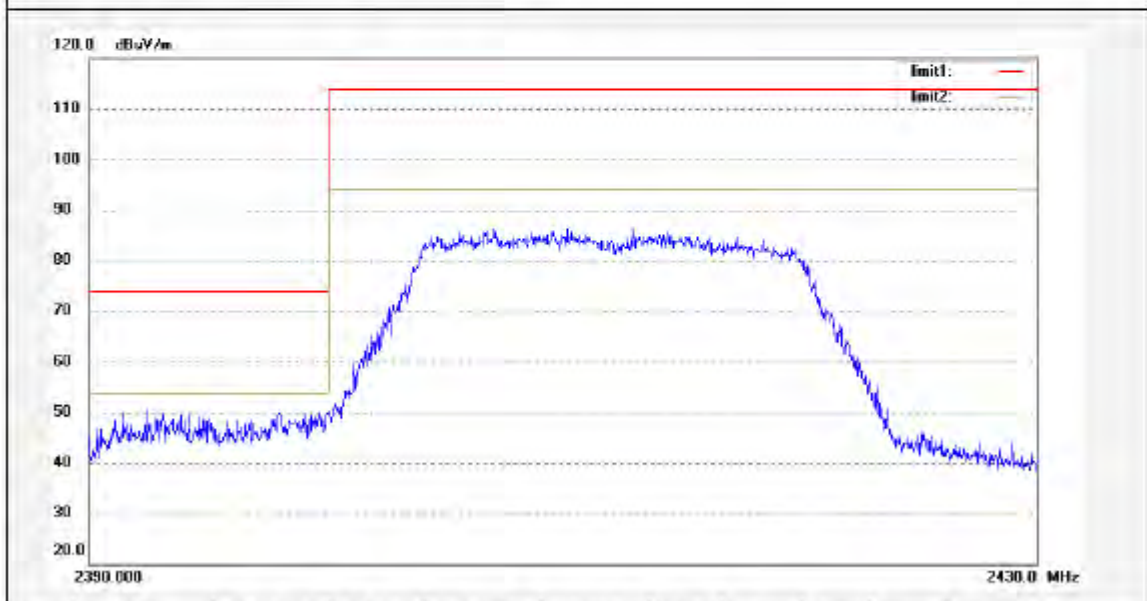
ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #887	Polarization: Horizontal
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 22:42:51
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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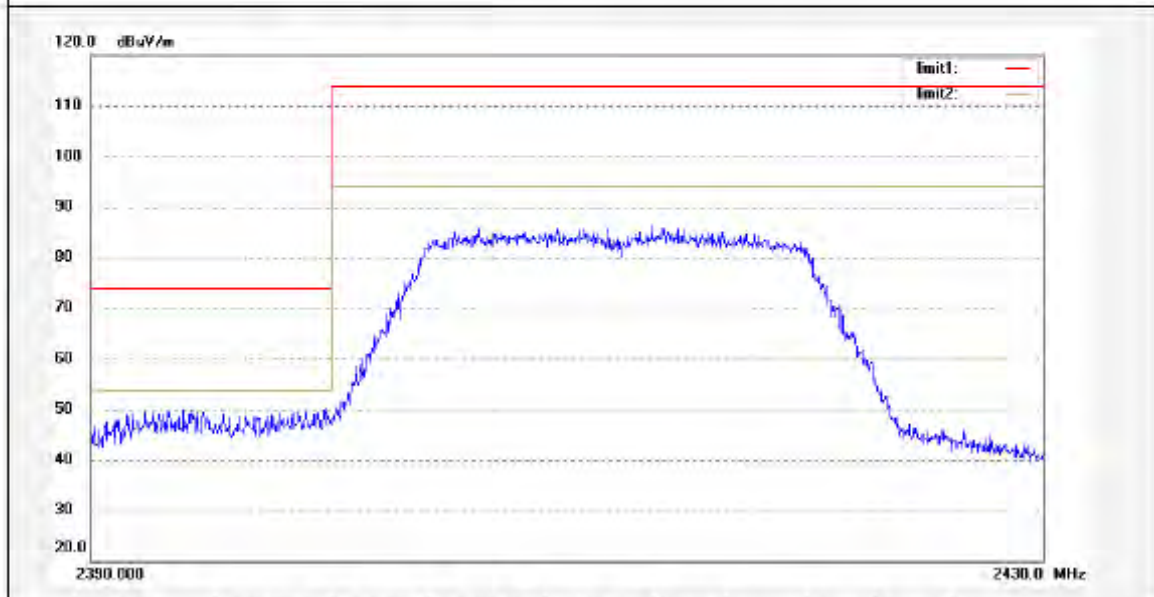
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #888	Polarization: Vertical
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 22:44:01
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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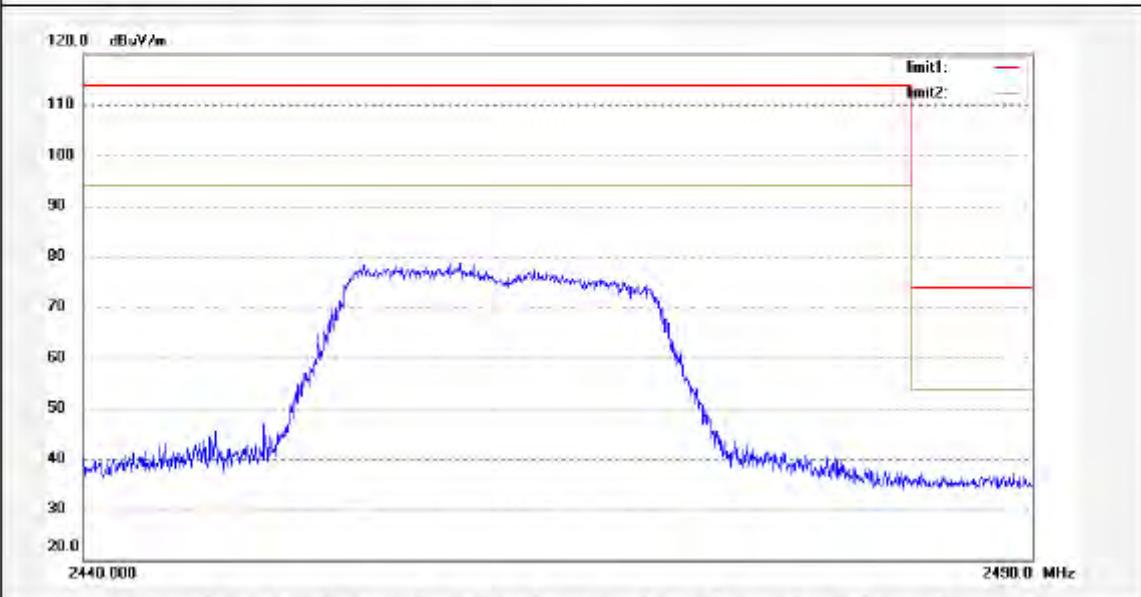


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: Kai #890	Polarization: Horizontal
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 22:50:06
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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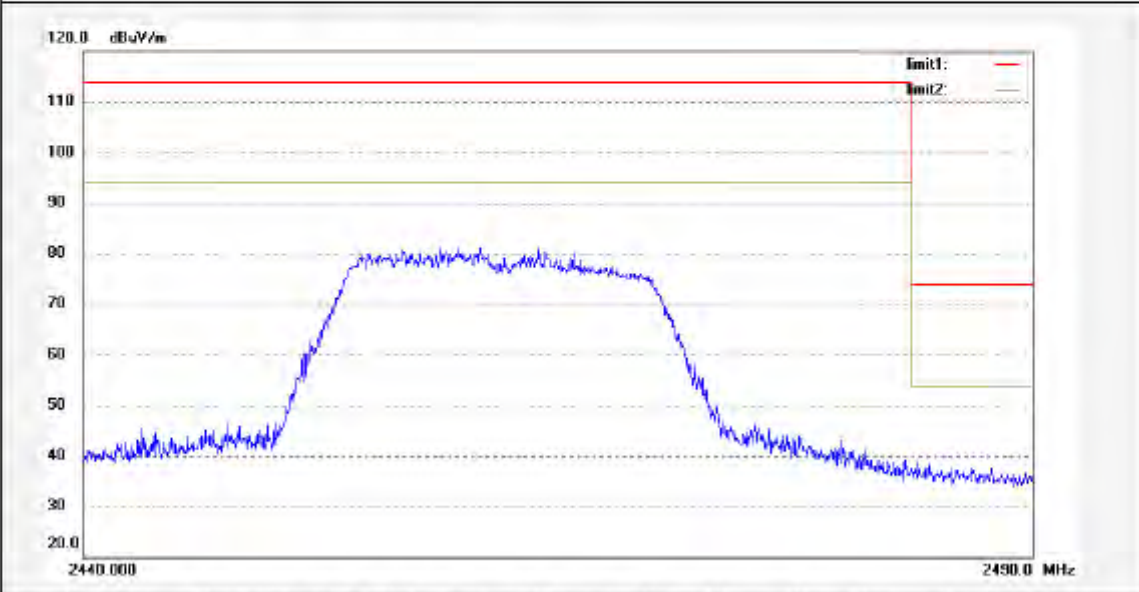
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #889	Polarization: Vertical
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 22:48:57
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802

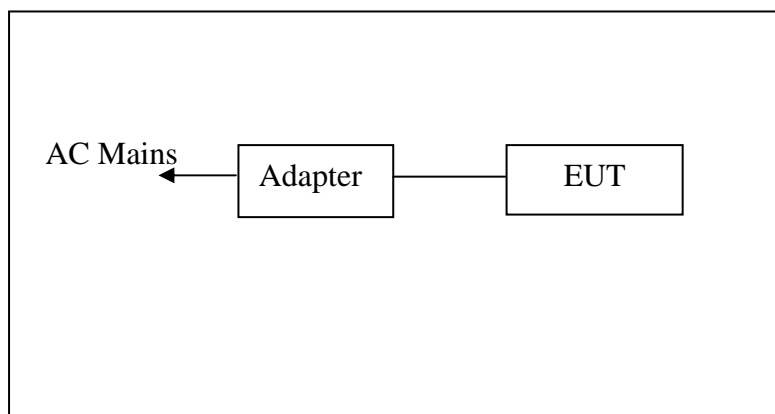


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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9. RADIATED SPURIOUS EMISSION TEST

9.1. Block Diagram of Test Setup

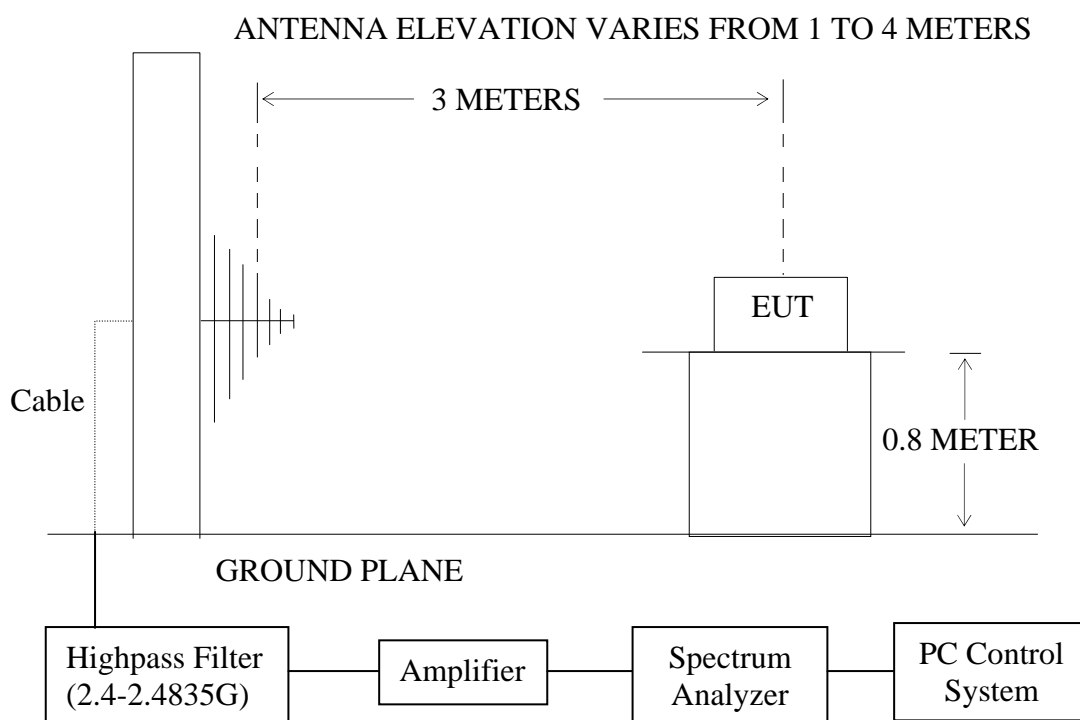
9.1.1. Block diagram of connection between the EUT and peripherals



Setup: Transmitting mode

(EUT: Wireless Music System)

9.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: Wireless Music System)

9.2.The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

9.3.Restricted bands of operation

9.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

9.4. Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.4.1. Wireless Music System (EUT)

Model Number : ABX-N300
 Serial Number : N/A
 Manufacturer : Zylux Acoustic Corporation

9.5. Operating Condition of EUT

9.5.1. Setup the EUT and simulator as shown as Section 9.1.

9.5.2. Turn on the power of all equipment.

9.5.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

9.6. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 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 polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The worst-case data rate for this channel to be 11Mbps for 802.11b mode and 54Mbps for 802.11g mode, based on previous with 802.11 WLAN product design architectures.

The bandwidth of test receiver (R&S ESI26) is set at 120kHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

The frequency range from 30MHz to 25000MHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Between the antenna and Amplifier have a Highpass Filter (Restricted bands of operation is 2.4-2.4835G), setup show to 9.1.2

9.7. The Field Strength of Radiation Emission Measurement Results

PASS.

Date of Test:	<u>September 12, 2011</u>	Temperature:	<u>25°C</u>
EUT:	<u>Wireless Music System</u>	Humidity:	<u>50%</u>
Model No.:	<u>ABX-N300</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>802.11b Channel Low 2412MHz</u>	Test Engineer:	<u>Pei</u>

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
208.9046	17.07	16.32	33.39	43.50	-10.11	Vertical
448.6722	12.66	22.94	35.60	46.00	-10.40	Vertical
485.3263	13.20	23.90	37.10	46.00	-8.90	Vertical
288.2611	22.40	18.55	40.95	46.00	-5.05	Horizontal
301.6440	22.61	18.72	41.33	46.00	-4.67	Horizontal
436.3396	15.34	22.91	38.25	46.00	-7.75	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. *: Denotes restricted band of operation.

Date of Test:	September 12, 2011	Temperature:	25°C
EUT:	Wireless Music System	Humidity:	50%
Model No.:	ABX-N300	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel Middle 2437MHz	Test Engineer:	Pei

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)		Factor Corr. (dB)	Result (dBμV/m)		Limit (dBμV/m)	Margin (dB)		Polarization
	QP			QP	QP		QP	QP	
202.7460	18.05		16.20	34.25		43.50	-9.25		Vertical
448.2619	12.57		22.94	35.51		46.00	-10.49		Vertical
485.3263	13.36		23.90	37.26		46.00	-8.74		Vertical
288.2611	22.39		18.55	40.94		46.00	-5.06		Horizontal
301.6441	22.56		18.72	41.28		46.00	-4.72		Horizontal
436.3397	15.42		22.91	38.33		46.00	-7.67		Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.**

Date of Test:	September 12, 2011	Temperature:	25°C
EUT:	Wireless Music System	Humidity:	50%
Model No.:	ABX-N300	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel High 2462MHz	Test Engineer:	Pei

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)		Factor Corr. (dB)	Result (dBμV/m)		Limit (dBμV/m)	Margin (dB)		Polarization
	QP			QP	QP		QP	QP	
208.6579	17.29		16.31	33.60		43.50	-9.90		Vertical
448.2619	12.46		22.94	35.40		46.00	-10.60		Vertical
479.1394	14.74		23.84	38.58		46.00	-7.42		Vertical
288.2611	22.53		18.55	41.08		46.00	-4.92		Horizontal
301.6441	22.14		18.72	40.86		46.00	-5.14		Horizontal
436.3397	15.48		22.91	38.39		46.00	-7.61		Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.**

Date of Test:	September 12, 2011	Temperature:	25°C
EUT:	Wireless Music System	Humidity:	50%
Model No.:	ABX-N300	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel Low 2412MHz	Test Engineer:	Pei

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)		Factor Corr. (dB)	Result (dBμV/m)		Limit (dBμV/m)	Margin (dB)		Polarization
	AV	PEAK		AV	PEAK		AV	PEAK	
208.8929	-	17.26	16.32	-	33.58	43.50	-	-9.92	Vertical
356.3500	-	14.20	21.15	-	35.35	46.00	-	-10.65	Vertical
485.3600	-	13.15	23.90	-	37.05	46.00	-	-8.95	Vertical
288.7580	-	23.41	18.57	-	41.98	46.00	-	-4.02	Horizontal
301.0550	-	22.09	18.70	-	40.79	46.00	-	-5.21	Horizontal
436.2090	-	15.33	22.90	-	38.24	46.00	-	-7.76	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.**

Date of Test:	September 12, 2011	Temperature:	25°C
EUT:	Wireless Music System	Humidity:	50%
Model No.:	ABX-N300	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel Middle 2437MHz	Test Engineer:	Pei

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)		Factor Corr. (dB)	Result (dBμV/m)		Limit (dBμV/m)	Margin (dB)		Polarization
	QP			QP	QP		QP	QP	
208.9010	17.17		16.32	33.49		43.50	-10.01		Vertical
356.3299	13.57		21.15	34.72		46.00	-11.28		Vertical
480.0281	13.16		23.86	37.02		46.00	-8.98		Vertical
288.7620	22.32		18.57	40.89		46.00	-5.11		Horizontal
301.0500	22.24		18.70	40.94		46.00	-5.06		Horizontal
313.3420	20.07		19.14	39.21		46.00	-6.79		Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.**

Date of Test:	September 12, 2011	Temperature:	25°C
EUT:	Wireless Music System	Humidity:	50%
Model No.:	ABX-N300	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel High 2462MHz	Test Engineer:	Pei

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)		Factor Corr. (dB)	Result (dBμV/m)		Limit (dBμV/m)	Margin (dB)		Polarization
	QP			QP	QP		QP	QP	
208.9124	17.45		16.32	33.77		43.50	-9.73		Vertical
448.5140	12.56		22.94	35.50		46.00	-10.50		Vertical
485.3690	13.50		23.90	37.40		46.00	-8.60		Vertical
288.4611	22.51		18.56	41.07		46.00	-4.93		Horizontal
301.5440	22.26		18.72	40.98		46.00	-5.02		Horizontal
436.3396	15.24		22.91	38.15		46.00	-7.85		Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.**



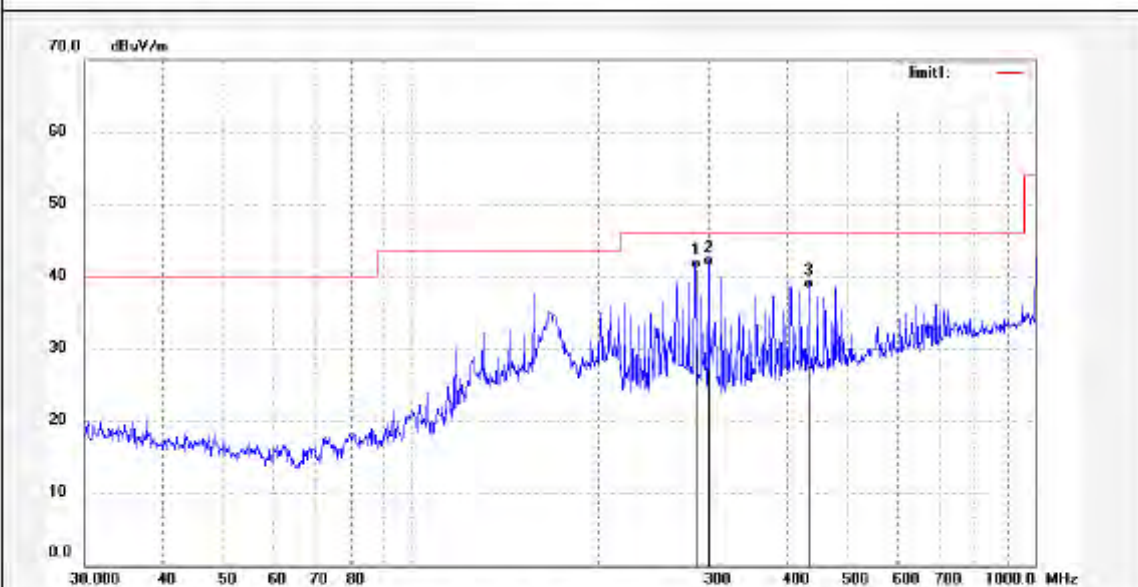
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #642	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11:17:41
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	288.2611	22.40	18.55	40.95	46.00	-5.05	QP			
2	301.6440	22.61	18.72	41.33	46.00	-4.67	QP			
3	436.3396	15.34	22.91	38.25	46.00	-7.75	QP			



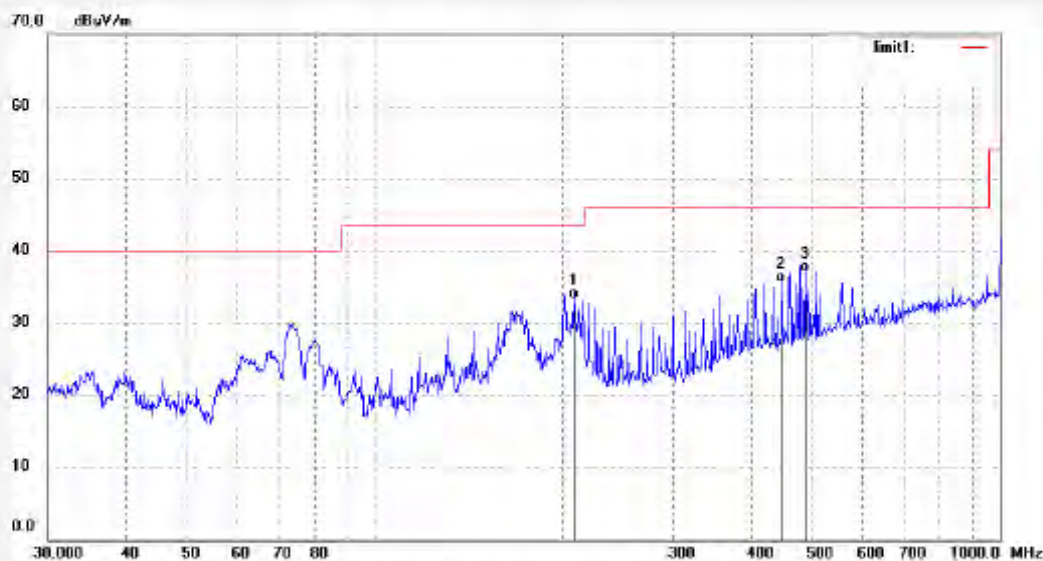
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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #641	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11:16:21
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	208.9046	17.07	16.32	33.39	43.50	-10.11	QP			
2	448.6722	12.66	22.94	35.60	46.00	-10.40	QP			
3	485.3263	13.20	23.90	37.10	46.00	-8.90	QP			



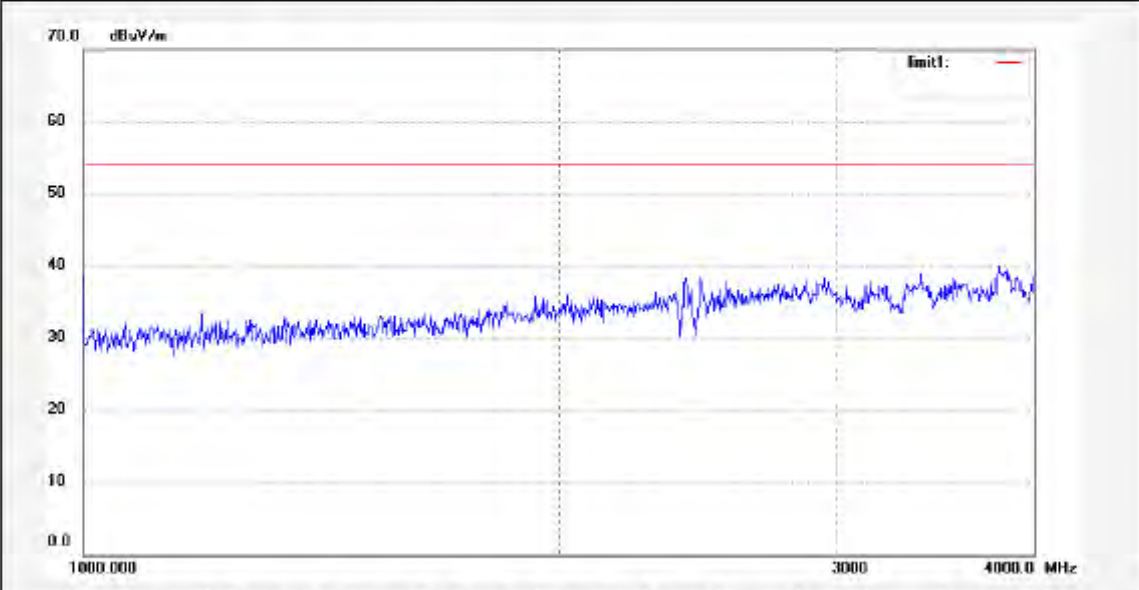
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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #842	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 21:11:54
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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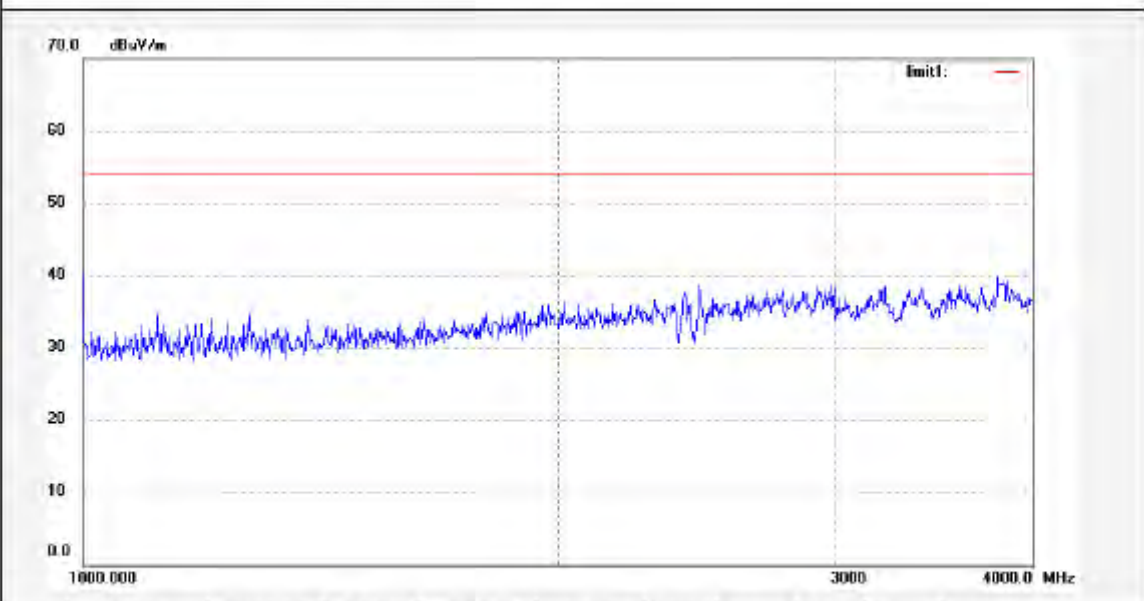
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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #841	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 21:10:48
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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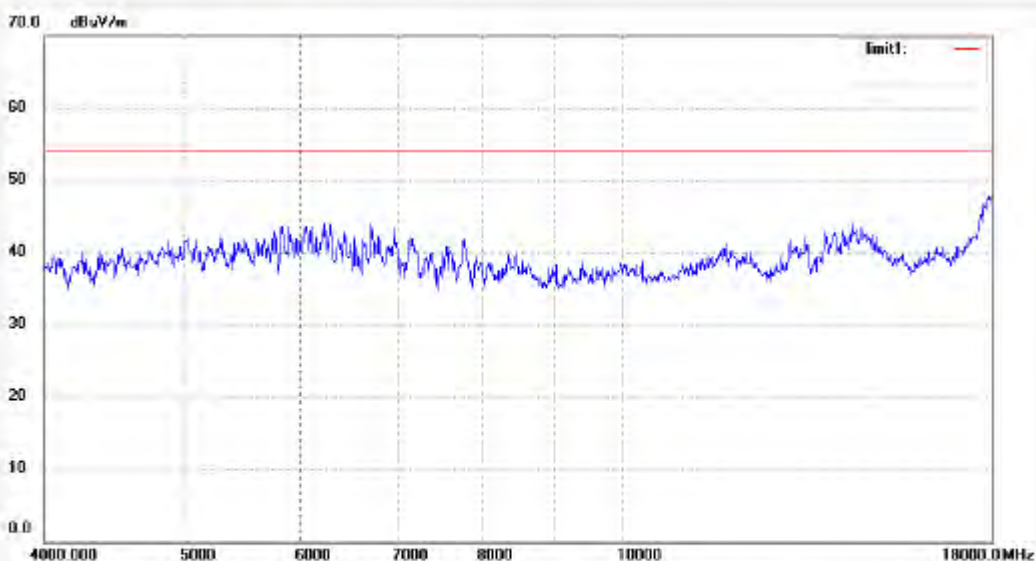
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #843	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 21:13:10
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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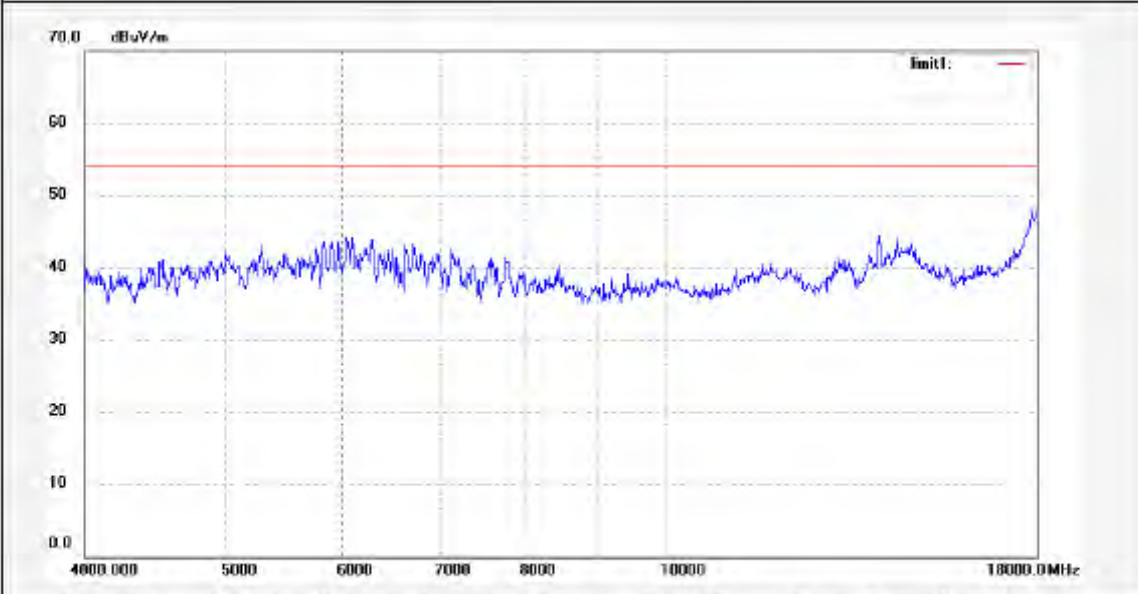
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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #844	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 21:14:11
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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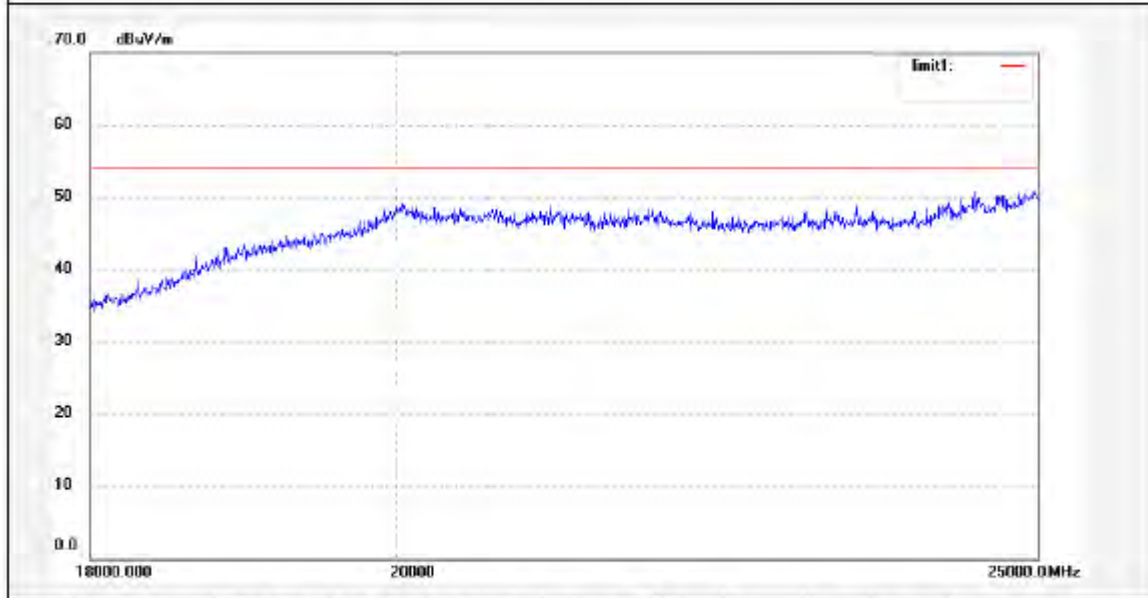
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Kai #846	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 21:16:53
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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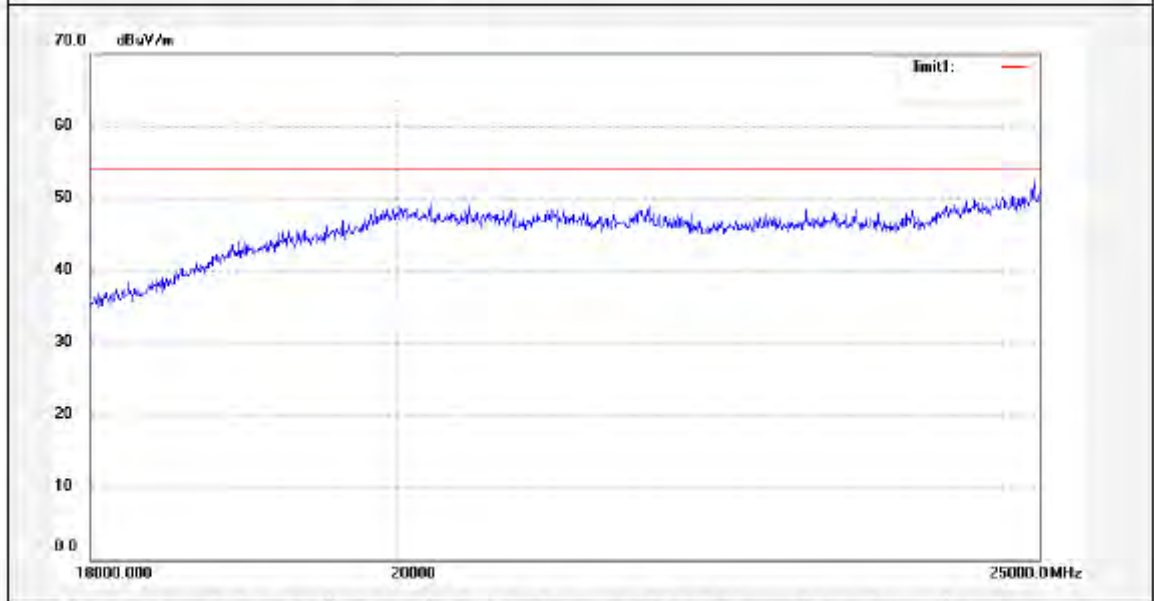


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Job No.: Kai #845	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 21:15:22
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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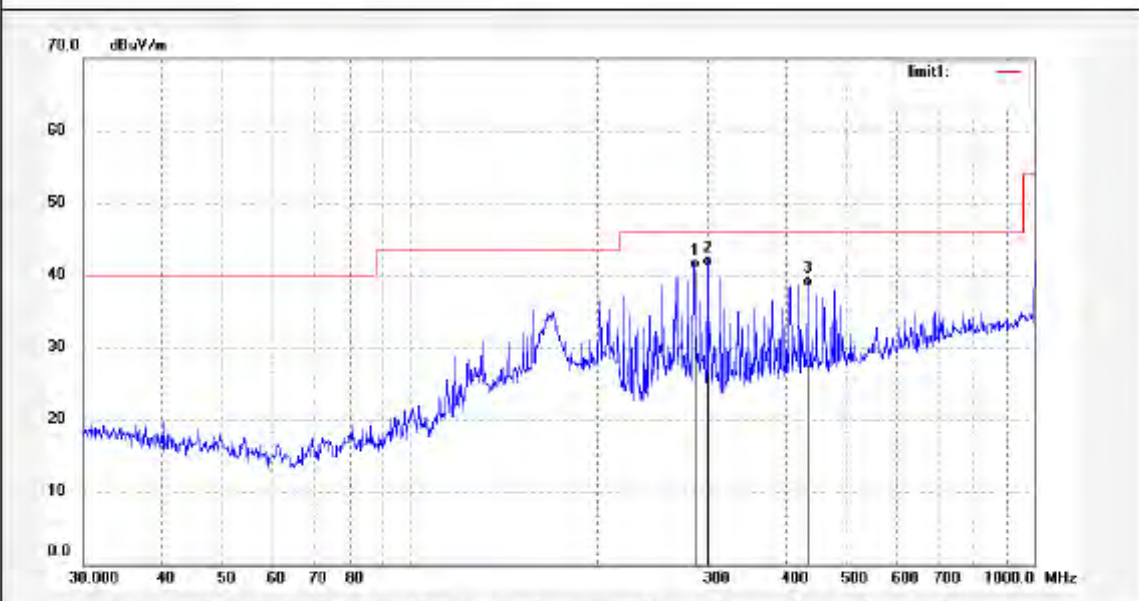
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Job No.: Kai #643	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11:25:26
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 6 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	288.2611	22.39	18.55	40.94	46.00	-5.06	QP			
2	301.6441	22.56	18.72	41.28	46.00	-4.72	QP			
3	436.3397	15.42	22.91	38.33	46.00	-7.67	QP			

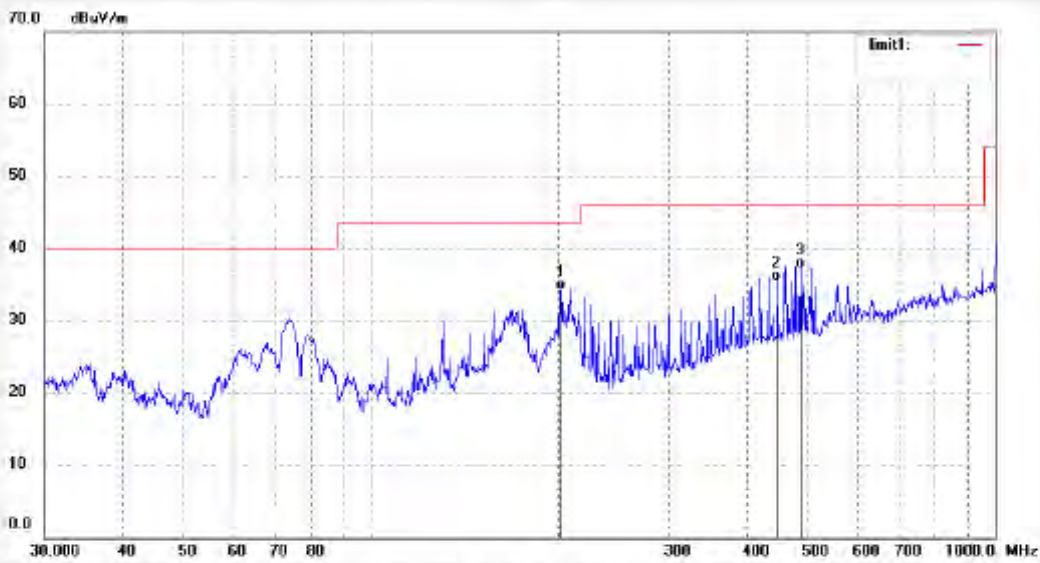


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Site: 966 chamber
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 Fax:+86-0755-26503396

Job No.: Kai #644	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11:27:41
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 6 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	202.7460	18.05	16.20	34.25	43.50	-9.25	QP			
2	448.2619	12.57	22.94	35.51	46.00	-10.49	QP			
3	485.3263	13.36	23.90	37.26	46.00	-8.74	QP			



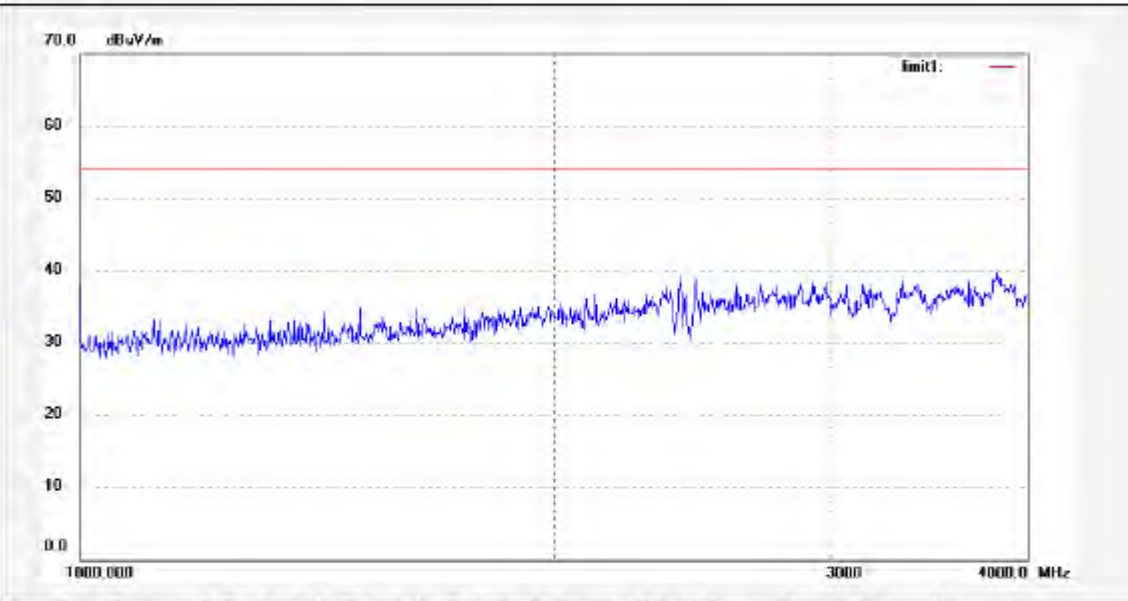
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #835	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 21:02:25
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 6 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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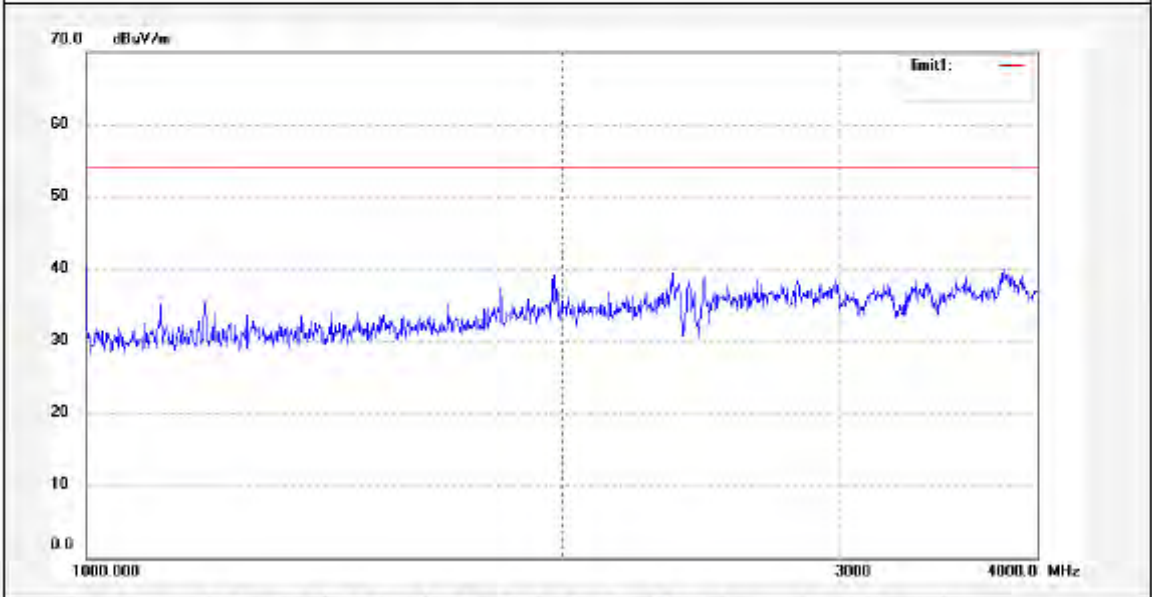
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #836	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 21:03:43
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 6 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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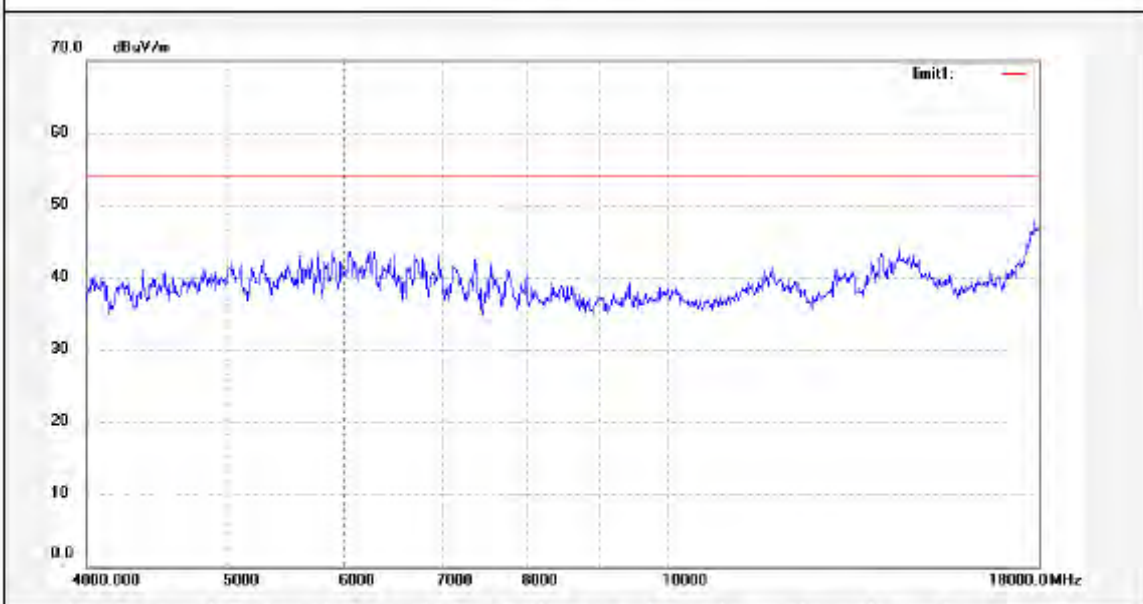
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #838	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 21:05:59
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 6 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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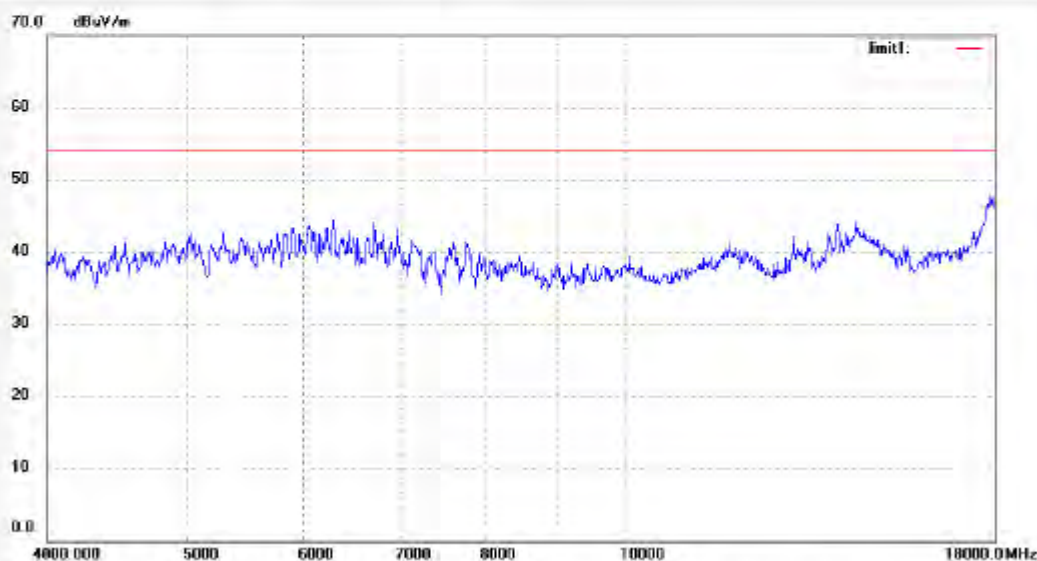
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #837	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 21:04:56
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 6 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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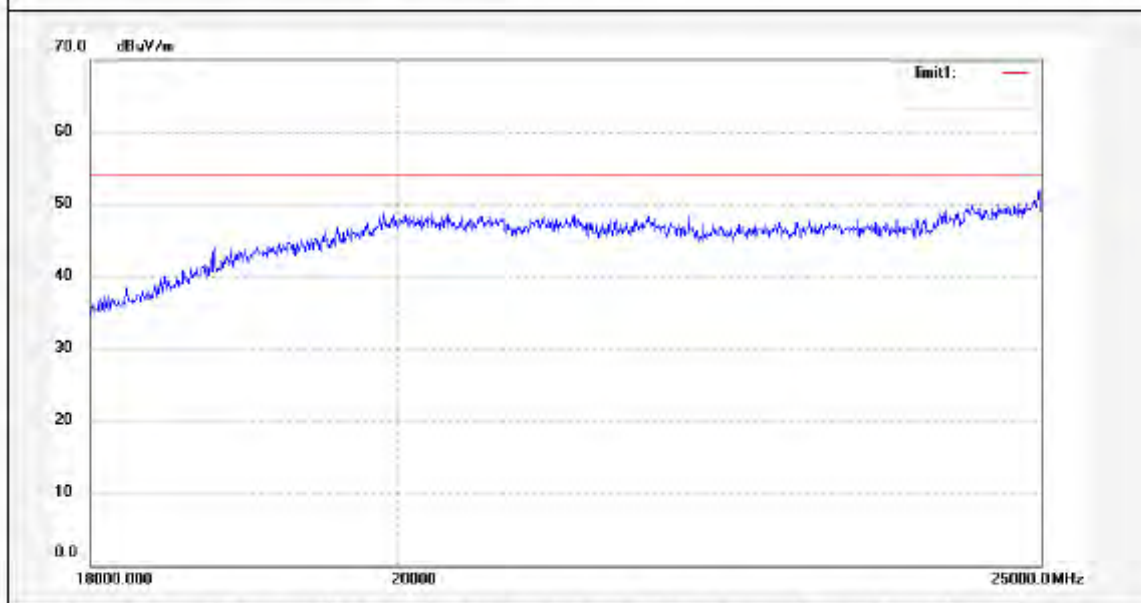
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Kai #839	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 21:07:07
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 6 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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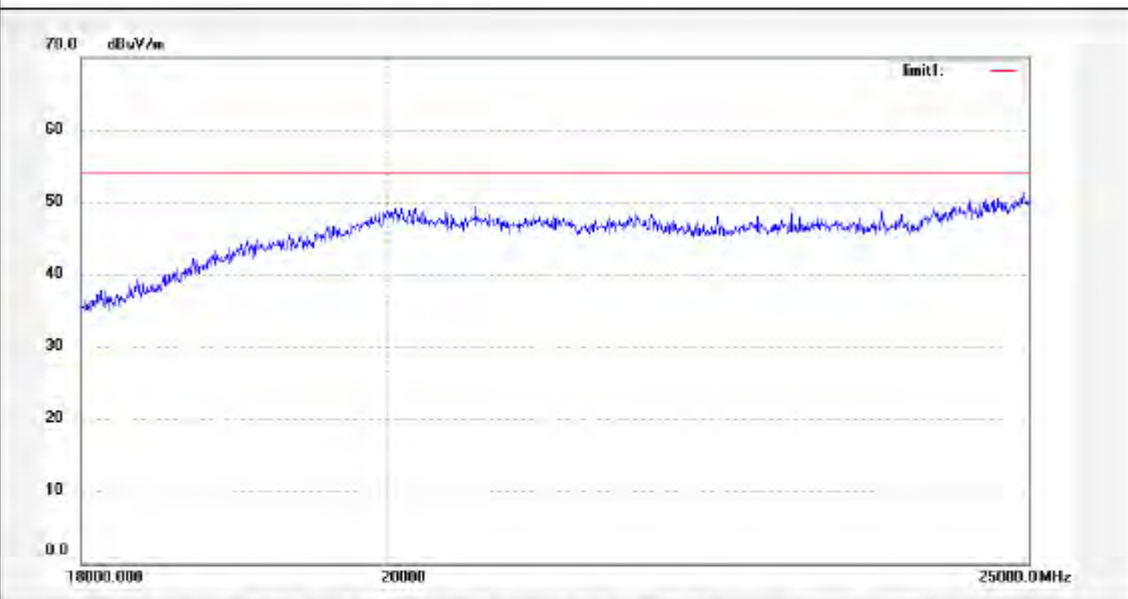
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Kai #840	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 21:08:59
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 6 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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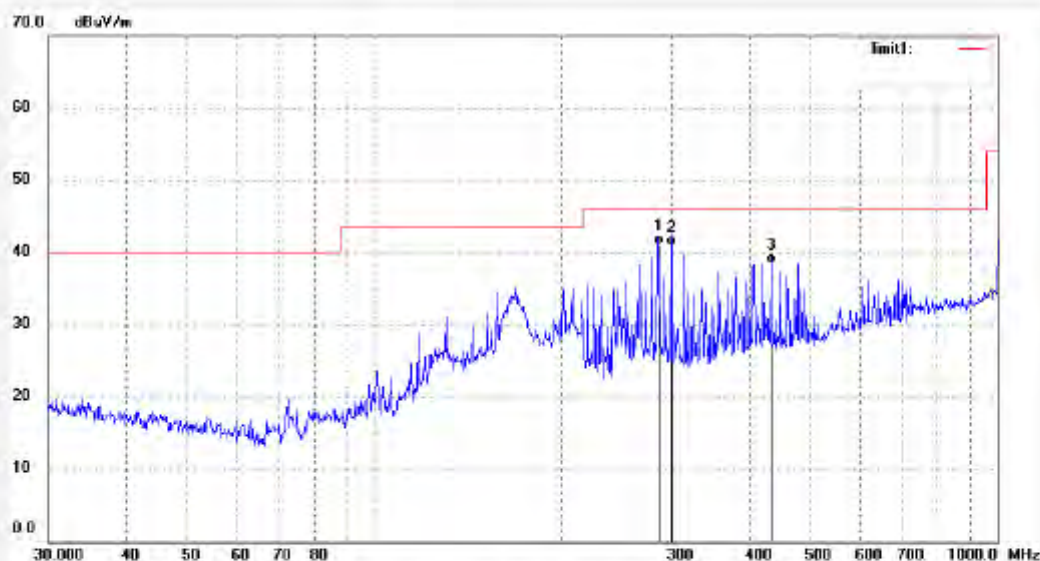
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #646	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11:35:10
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	288.2611	22.53	18.55	41.08	46.00	-4.92	QP			
2	301.6441	22.14	18.72	40.86	46.00	-5.14	QP			
3	436.3397	15.48	22.91	38.39	46.00	-7.61	QP			



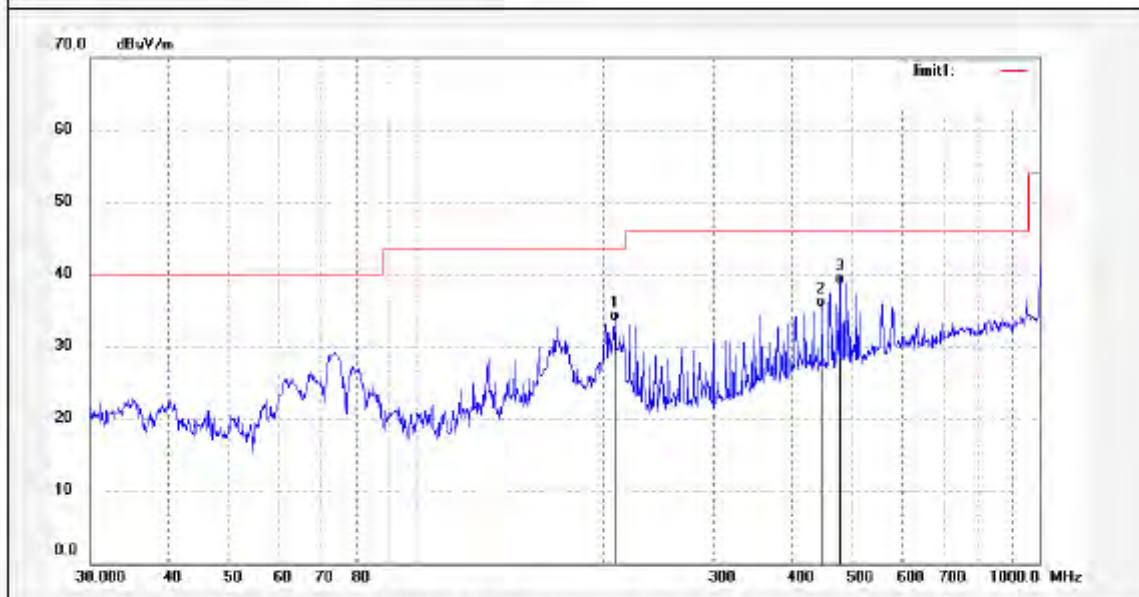
ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #645	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11:32:33
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	208.6579	17.29	16.31	33.60	43.50	-9.90	QP			
2	448.2619	12.46	22.94	35.40	46.00	-10.60	QP			
3	479.1394	14.74	23.84	38.58	46.00	-7.42	QP			



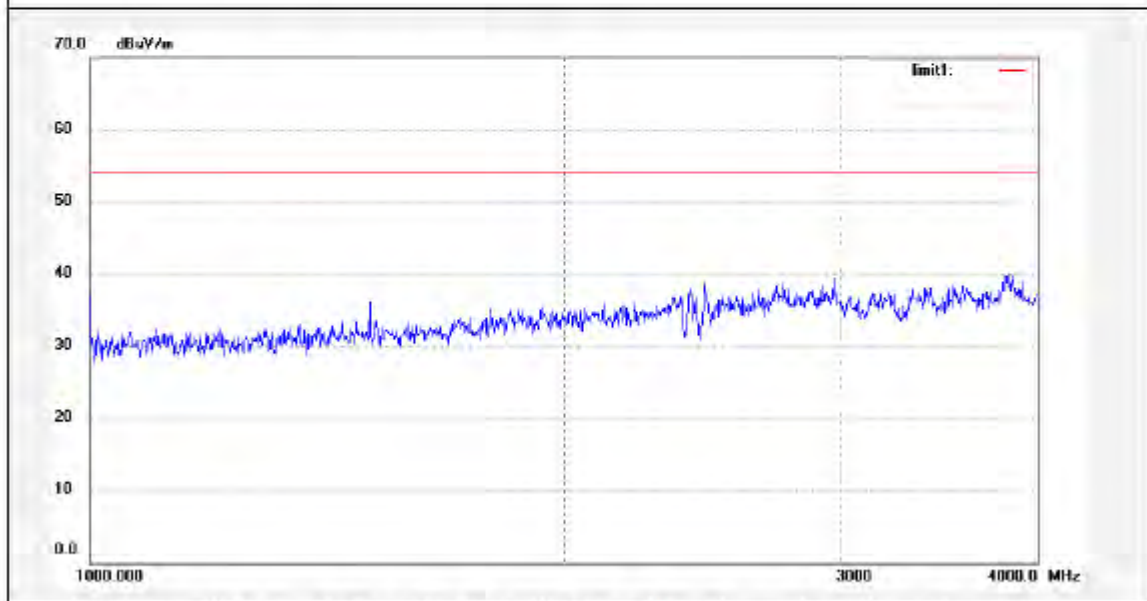
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #830	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:55:37
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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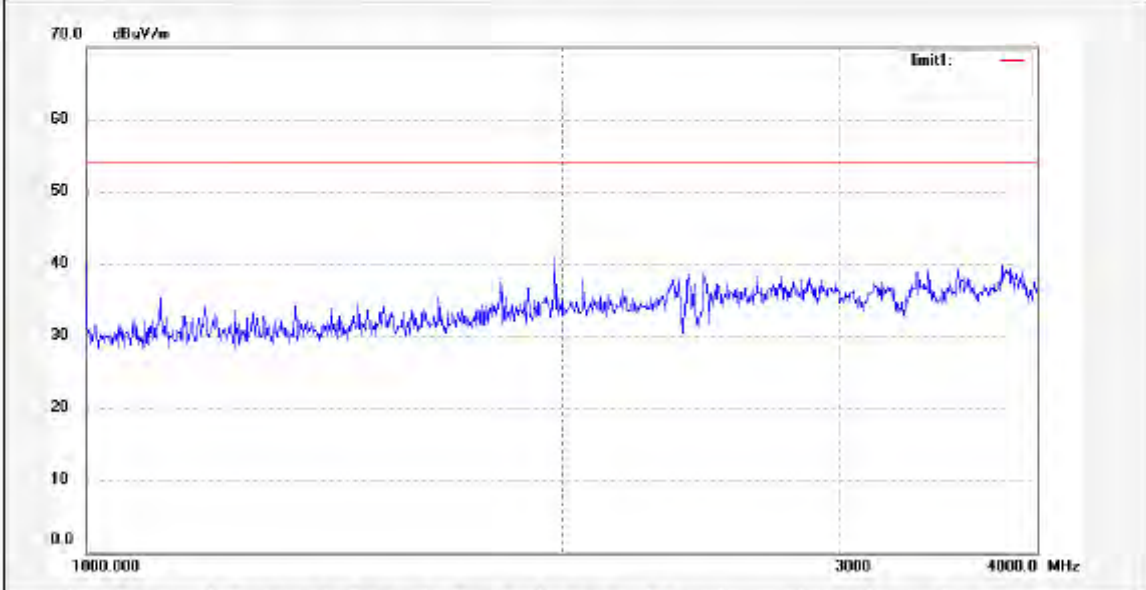
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #829	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:54:27
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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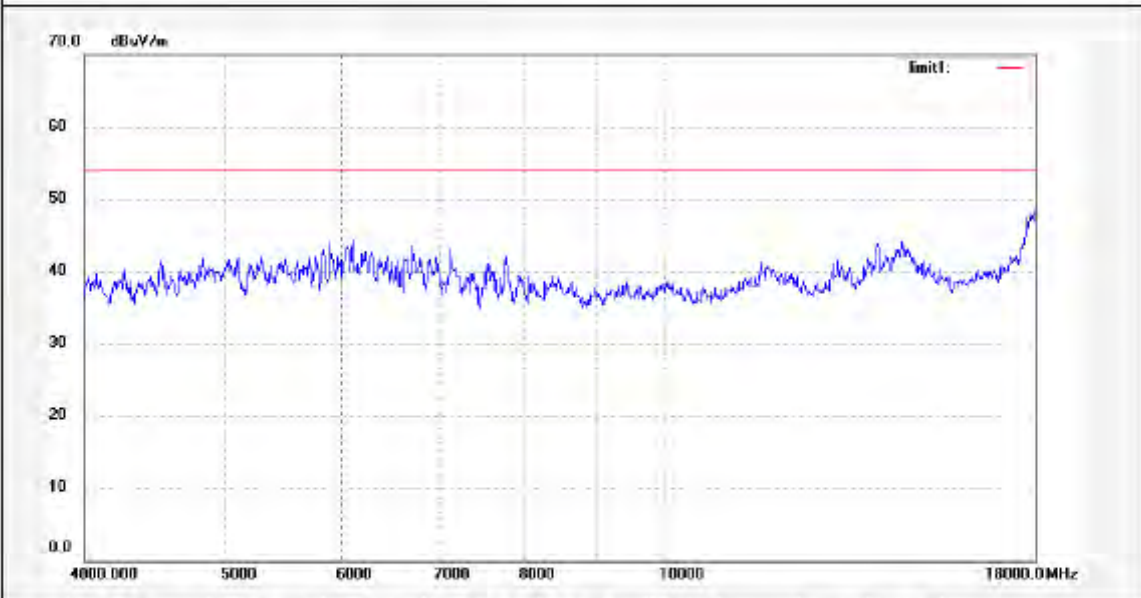
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Kai #831	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:56:47
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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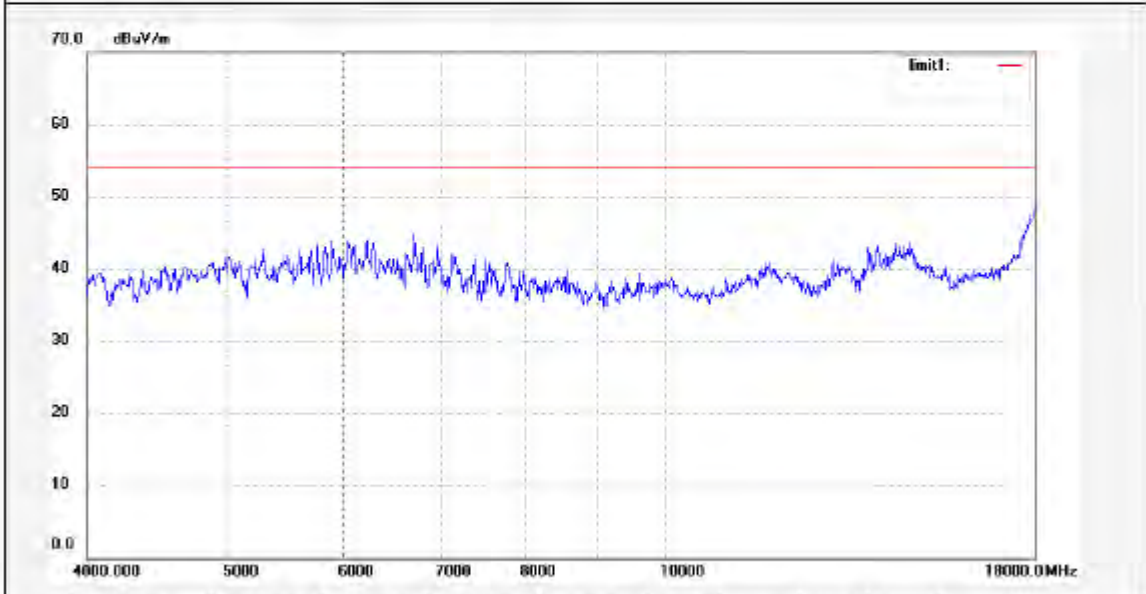
ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #832	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:57:49
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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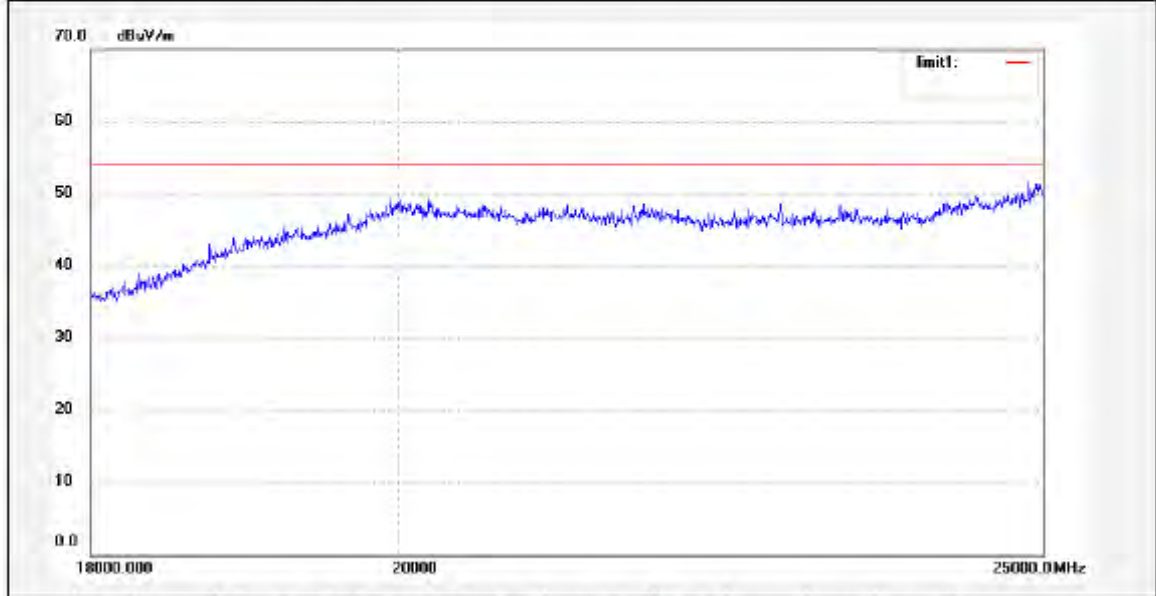


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Site: 966 chamber
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 Fax:+86-0755-26503396

Job No.: Kai #834	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 21:00:33
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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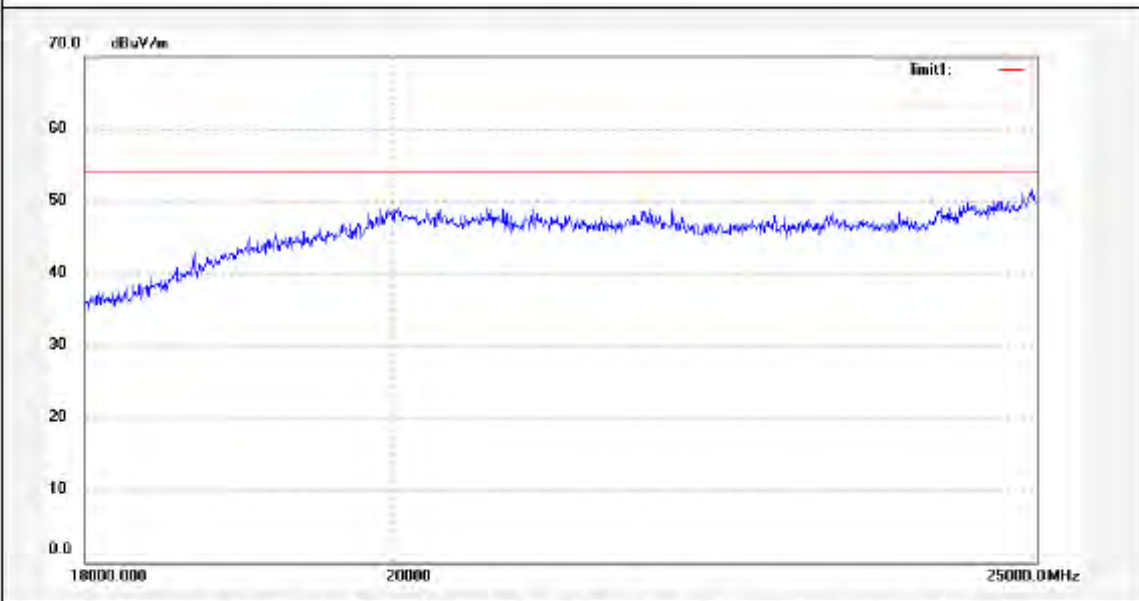
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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #833	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:59:06
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11b)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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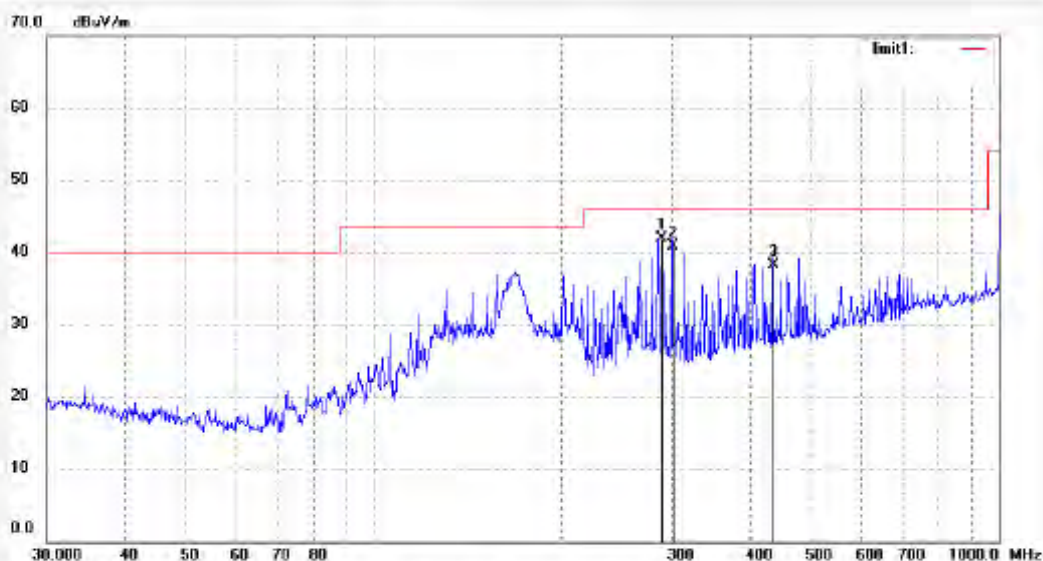
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #635	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 11/09/12/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 10/32/20
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	288.7580	23.41	18.57	41.98	46.00	-4.02	peak			
2	301.0550	22.09	18.70	40.79	46.00	-5.21	peak			
3	436.2090	15.33	22.91	38.24	46.00	-7.76	peak			



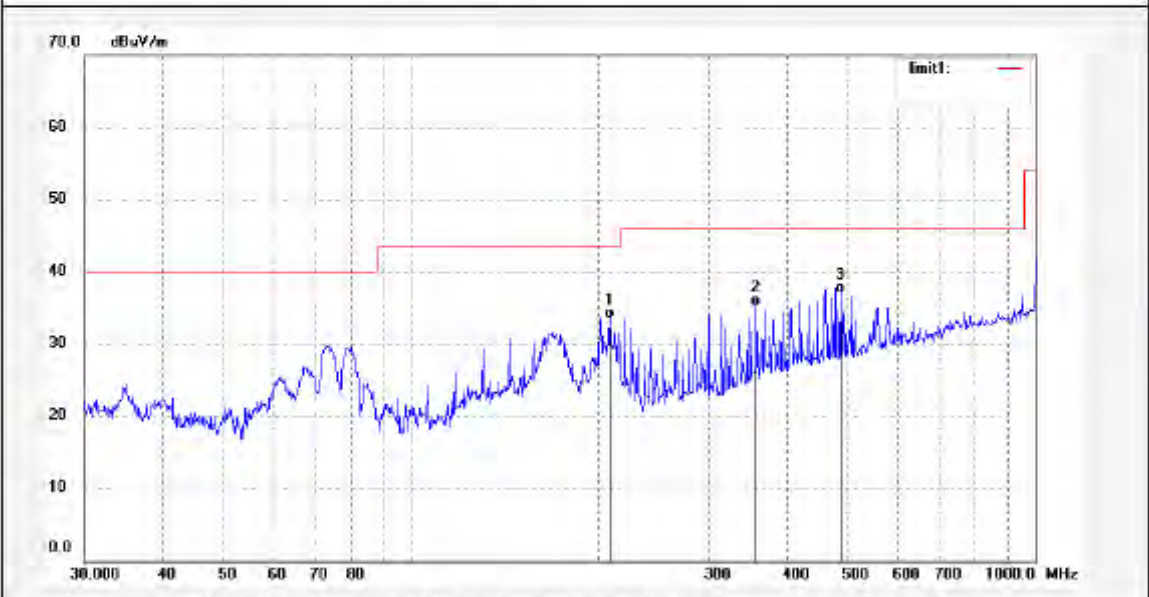
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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #636	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 11/09/12/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 10/34/35
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	208.8928	17.26	16.32	33.58	43.50	-9.92	QP			
2	356.3500	14.20	21.15	35.35	46.00	-10.65	QP			
3	485.3600	13.15	23.90	37.05	46.00	-8.95	QP			



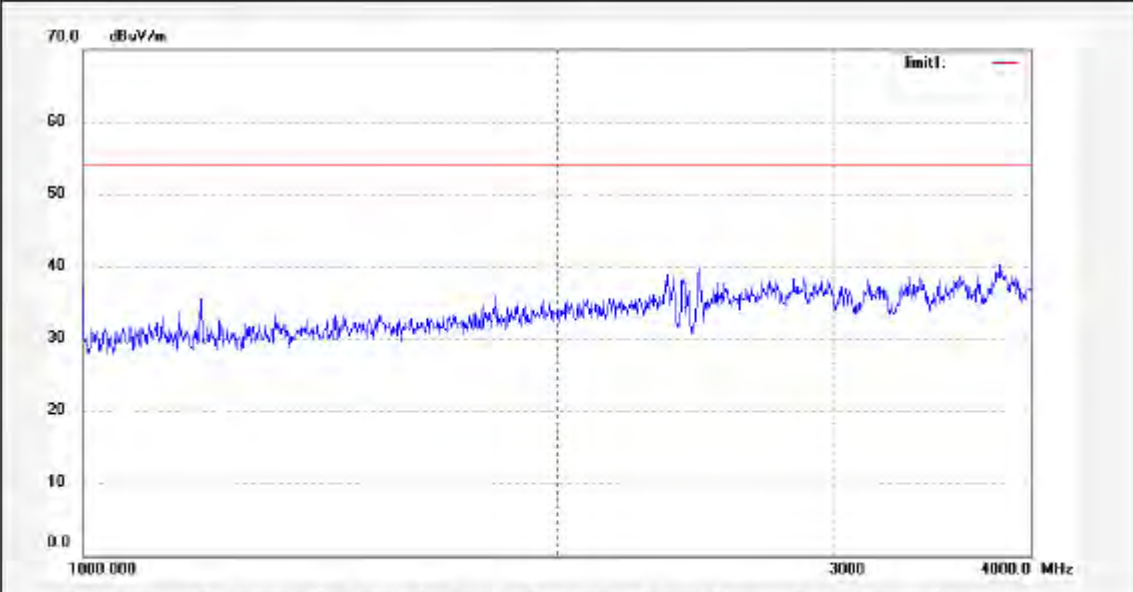
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Site: 966 chamber
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Fax:+86-0755-26503396

Job No.: Kai #811	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:25:30
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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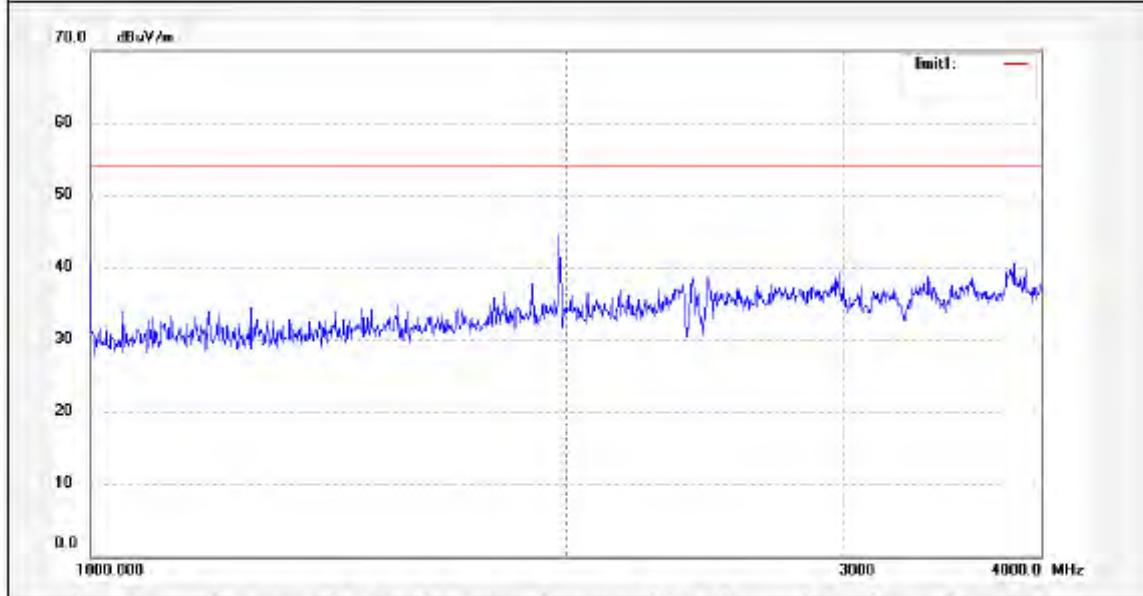


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Site: 966 chamber
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Job No.: Kai #812	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:26:26
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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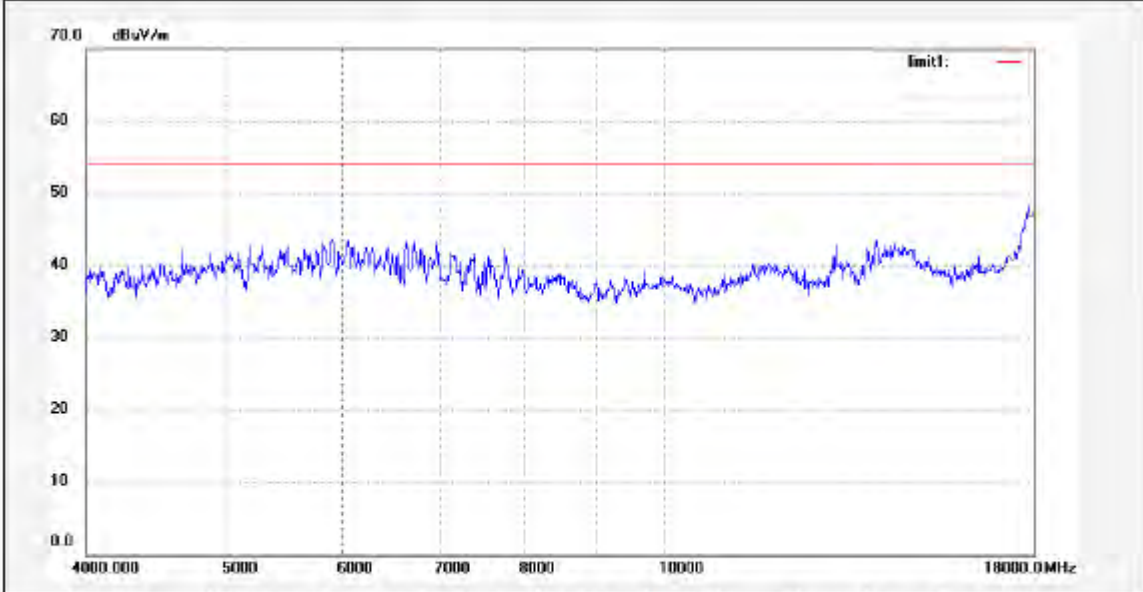
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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #814	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:28:59
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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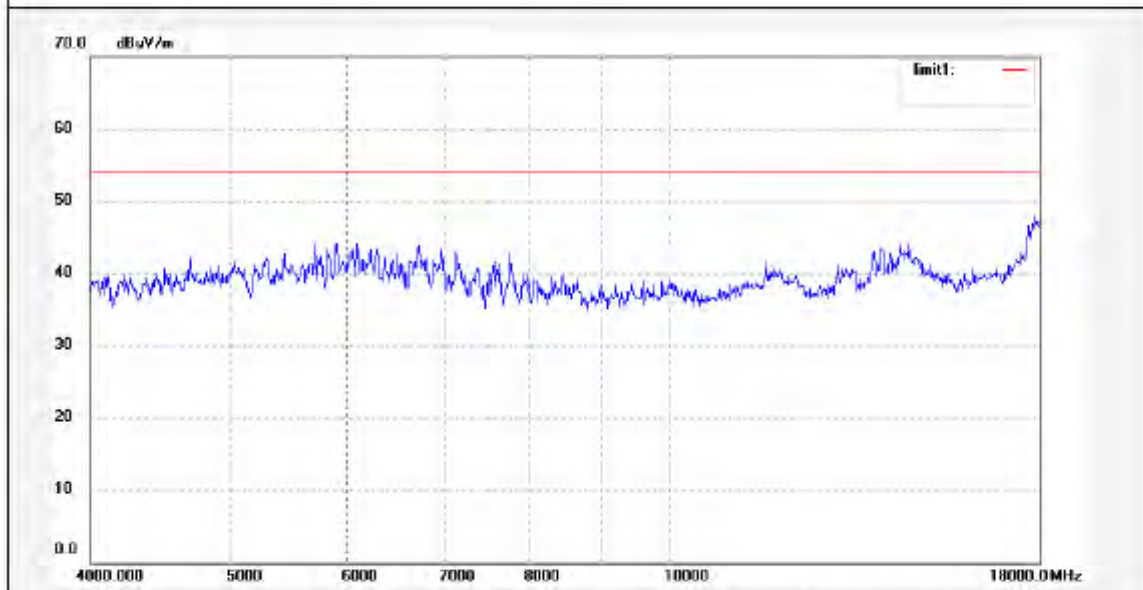
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Site: 966 chamber
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Fax:+86-0755-26503396

Job No.: Kai #813	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:28:03
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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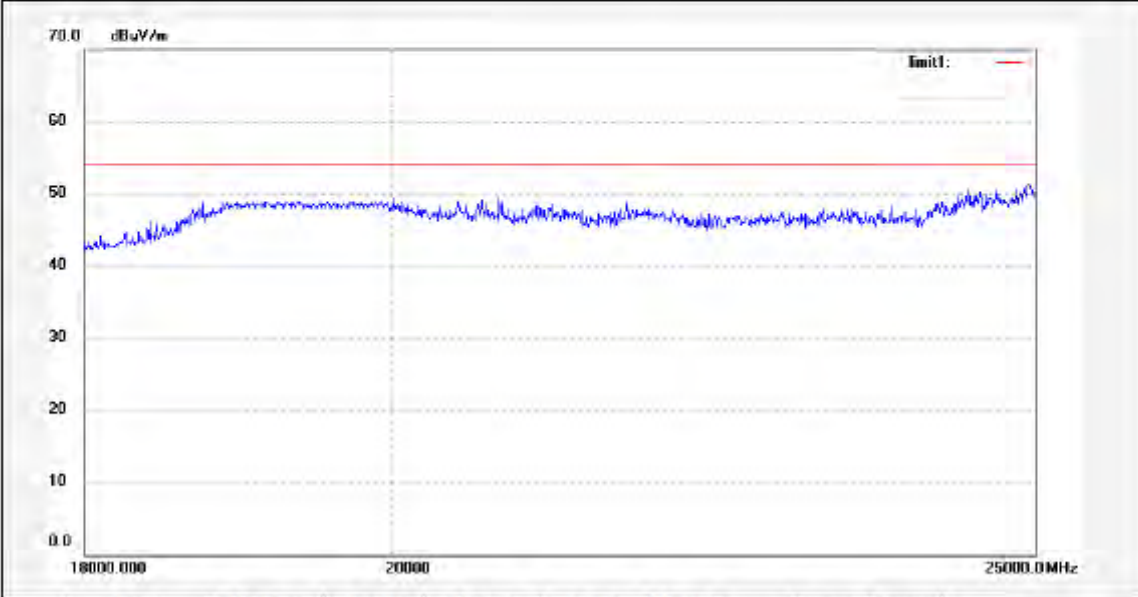
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #815	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:30:25
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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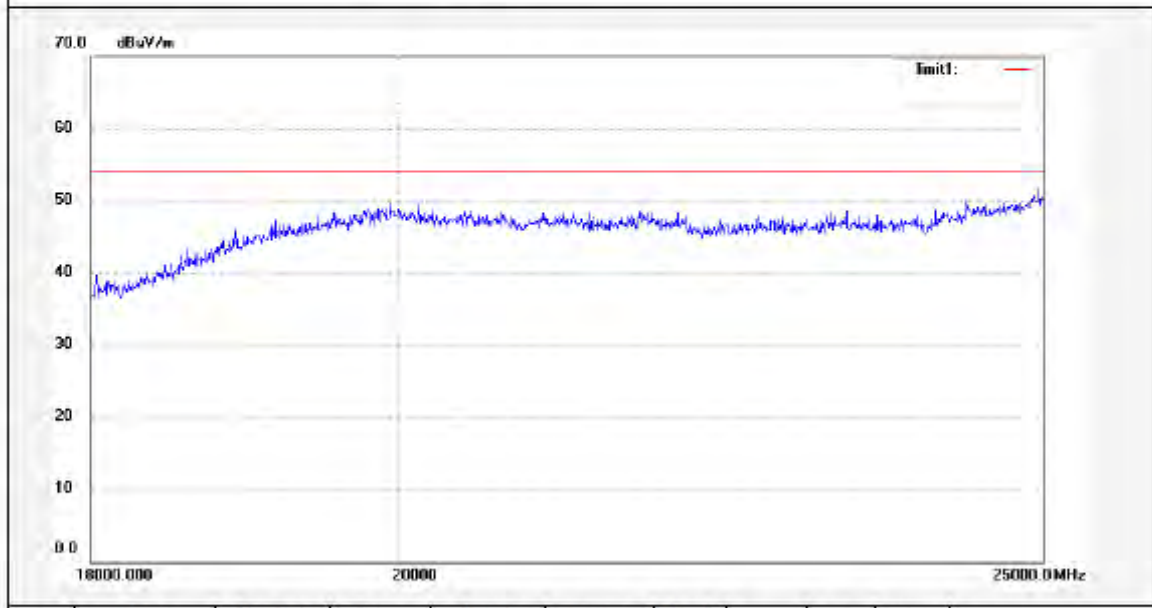
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #816	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:32:16
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 1 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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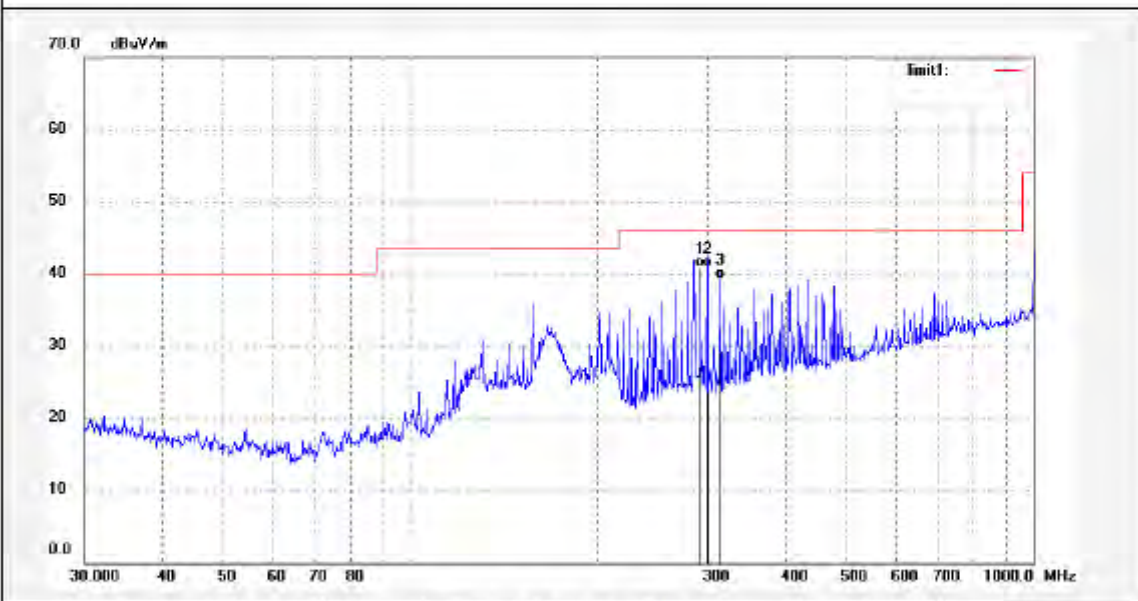
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #638	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 11/09/12/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 10/52/45
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 6 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	288.7620	22.32	18.57	40.89	46.00	-5.11	QP			
2	301.0500	22.24	18.70	40.94	46.00	-5.06	QP			
3	313.3420	20.07	19.14	39.21	46.00	-6.79	QP			



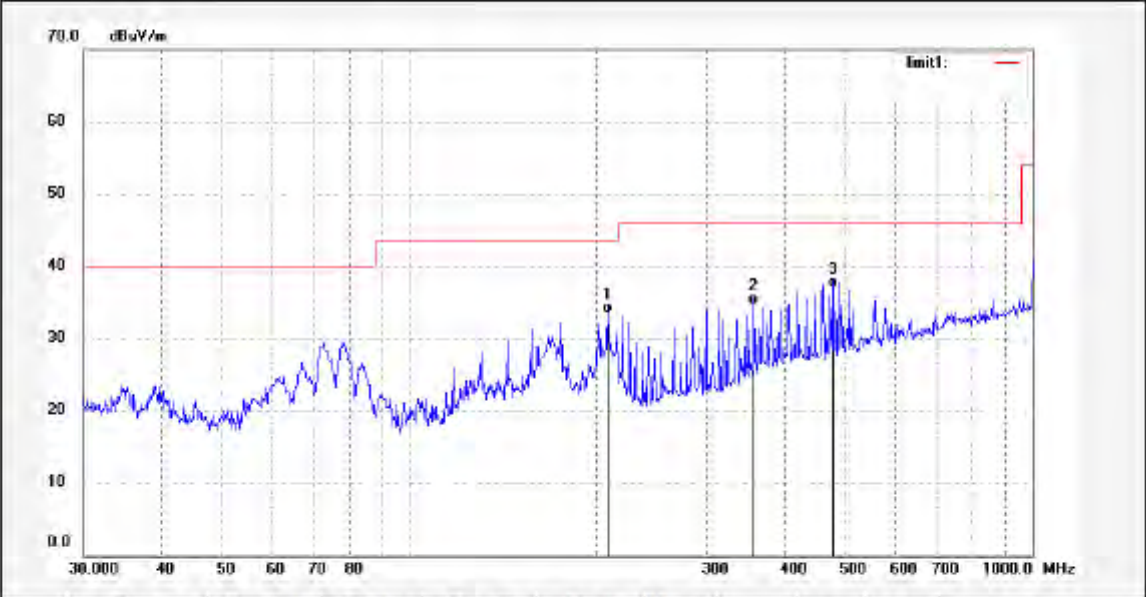
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #637	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 11/09/12/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 10/49/30
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 6 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	208.9010	17.17	16.32	33.49	43.50	-10.01	QP			
2	356.3299	13.57	21.15	34.72	46.00	-11.28	QP			
3	480.0281	13.16	23.86	37.02	46.00	-8.98	QP			



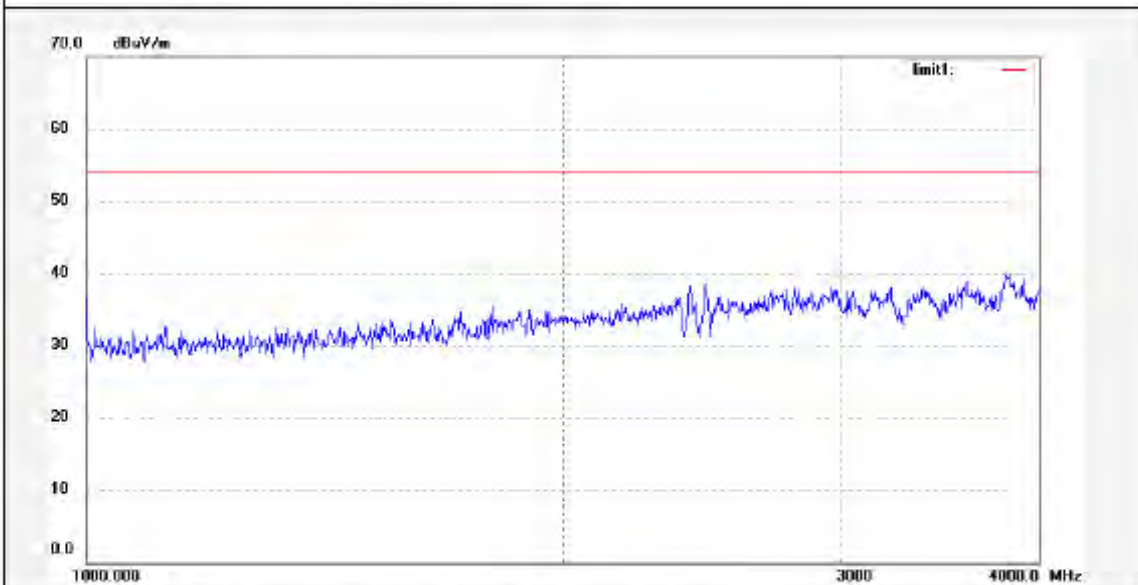
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #818	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:35:28
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 6 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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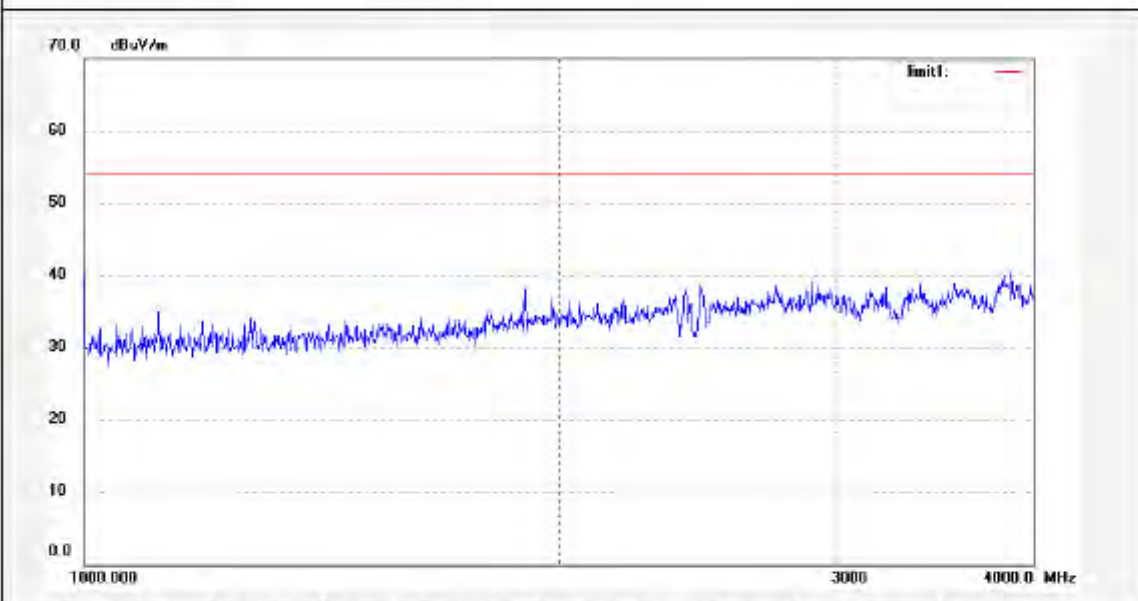
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #817	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:34:24
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 6 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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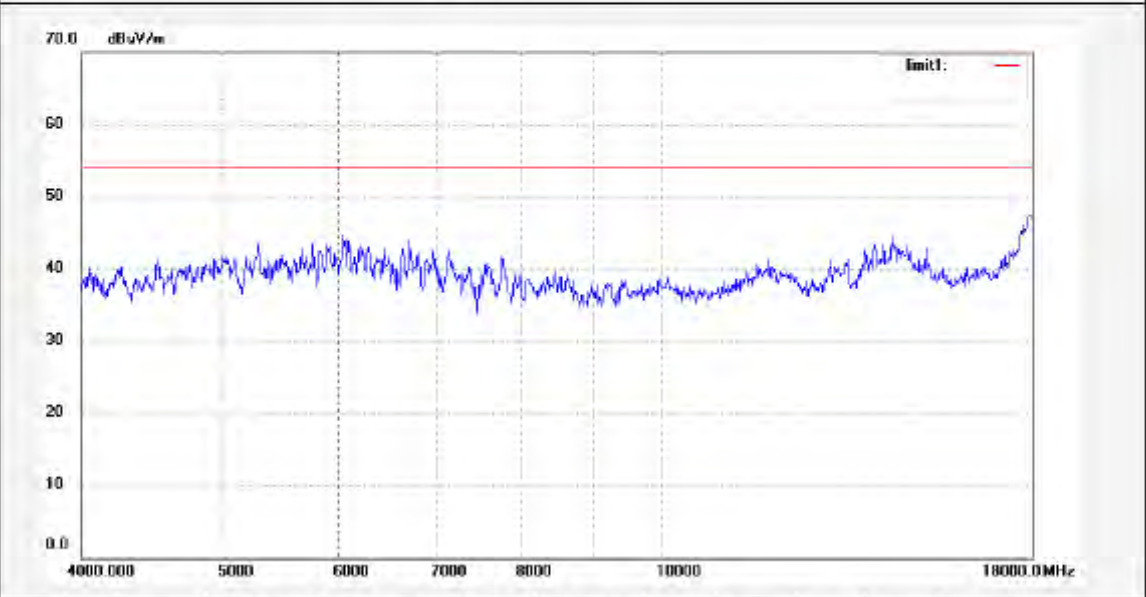
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #819	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:36:39
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 6 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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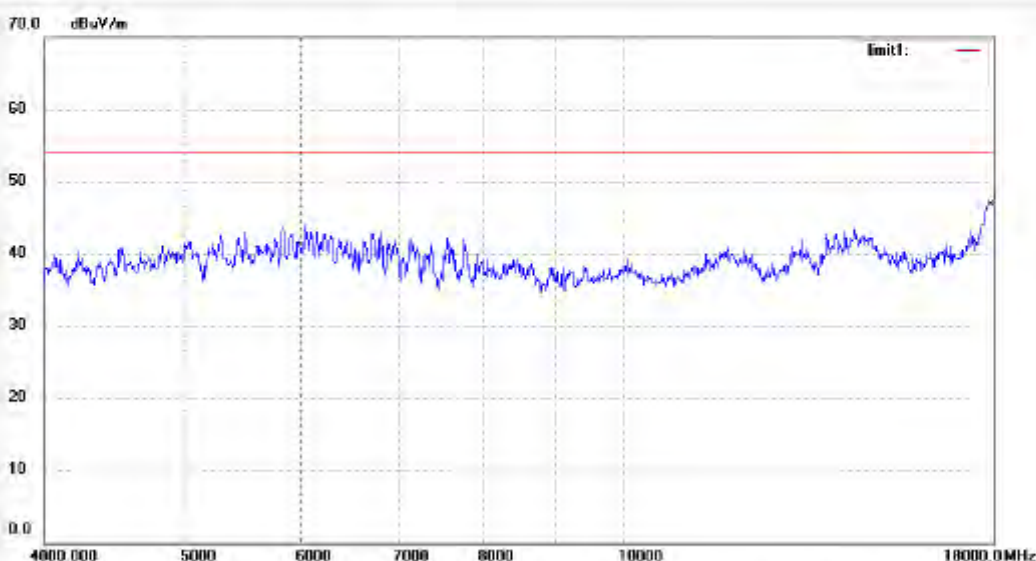
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #820	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:37:36
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 6 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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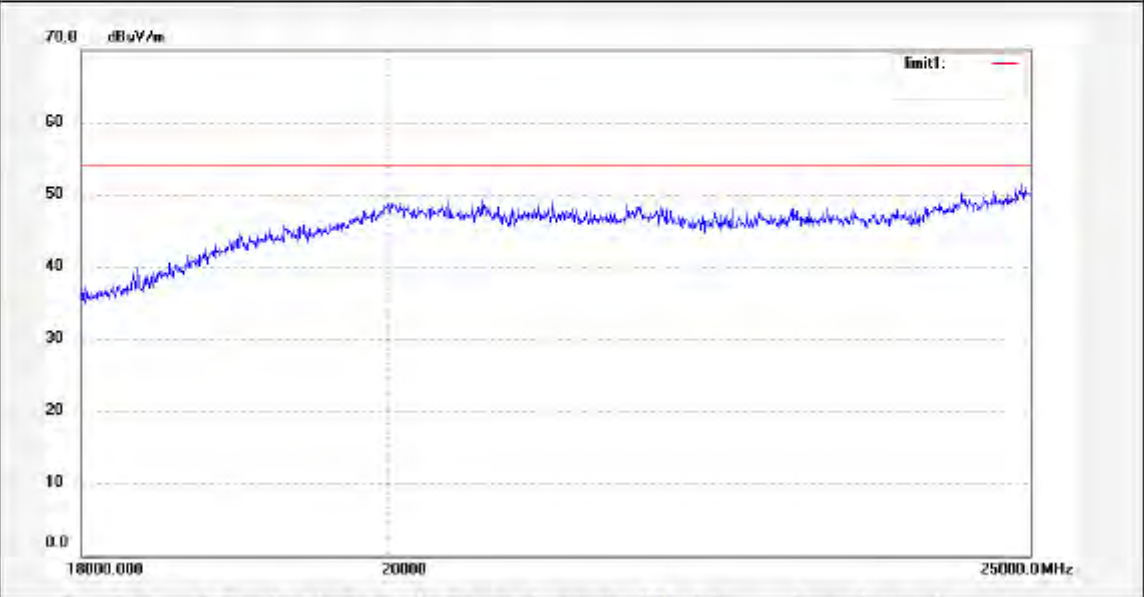
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #822	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:40:36
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 6 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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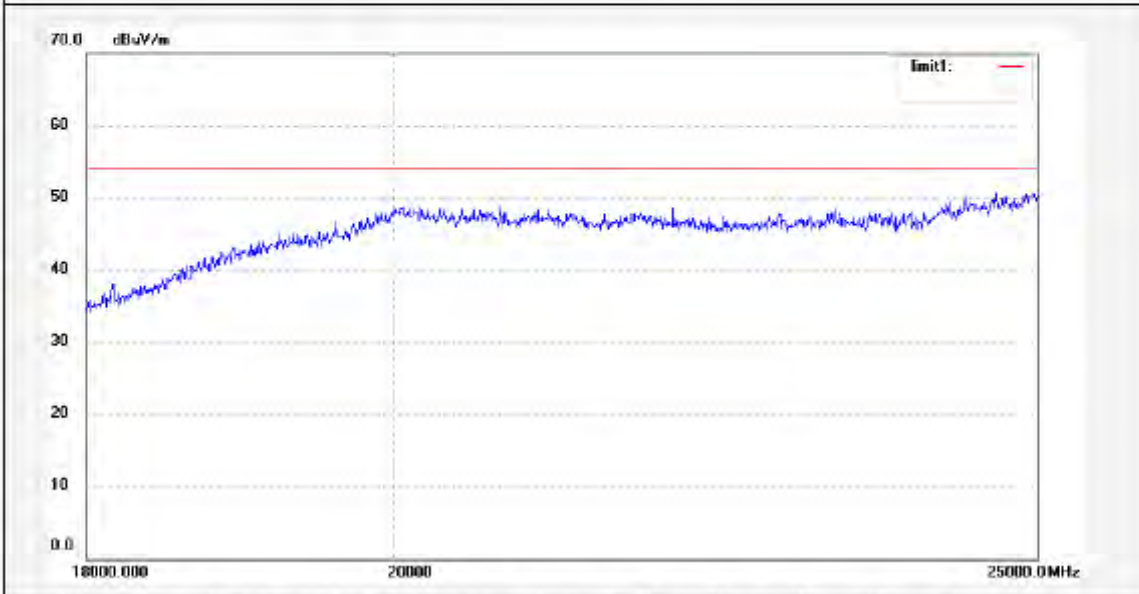
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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #821	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:38:55
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 6 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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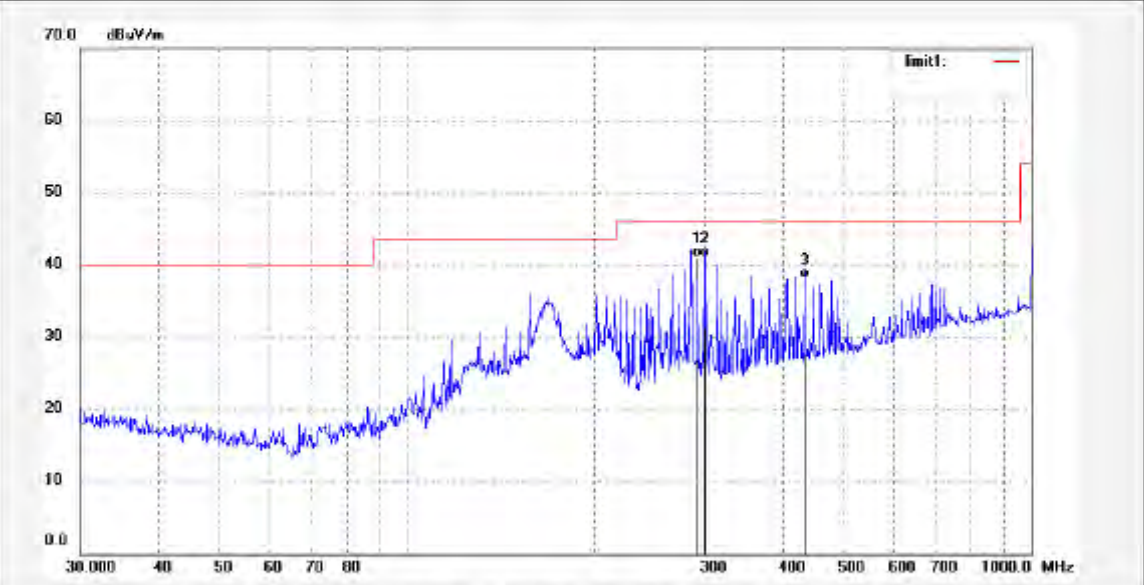
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #639	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11:03:02
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	288.4611	22.51	18.56	41.07	46.00	-4.93	QP			
2	301.5440	22.26	18.72	40.98	46.00	-5.02	QP			
3	436.3396	15.24	22.91	38.15	46.00	-7.85	QP			



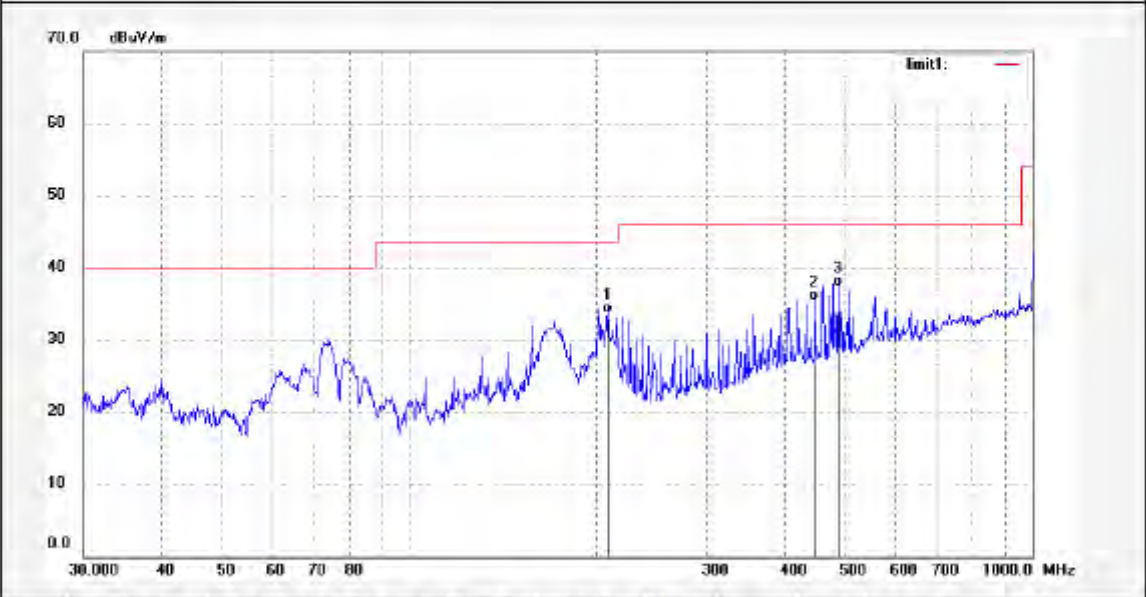
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #640	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11:06:15
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	208.9124	17.45	16.32	33.77	43.50	-9.73	QP			
2	448.5140	12.56	22.94	35.50	46.00	-10.50	QP			
3	485.3690	13.50	23.90	37.40	46.00	-8.60	QP			

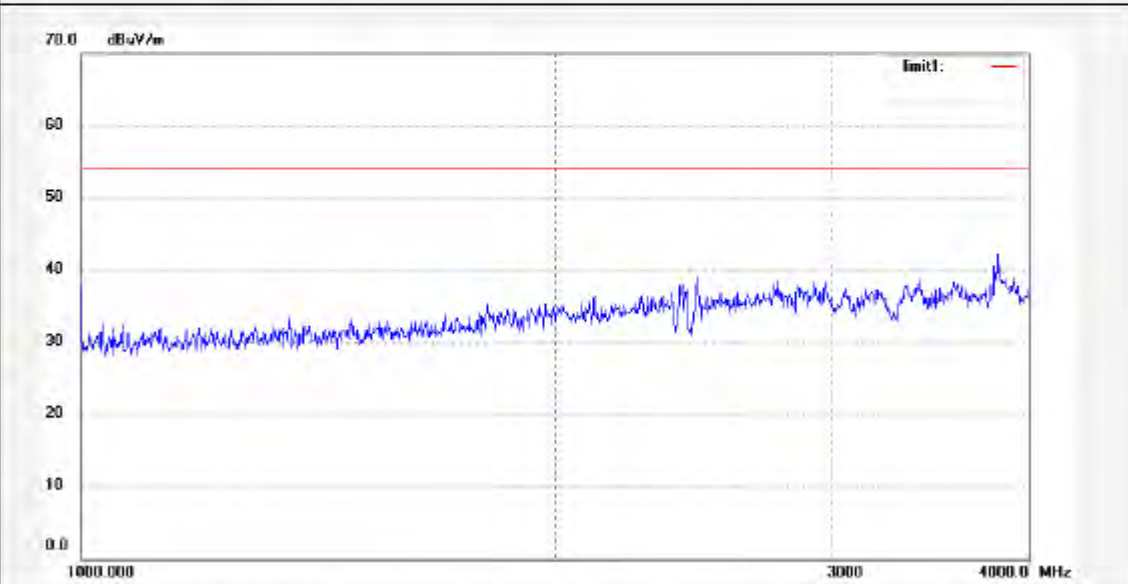


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: Kai #823	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:42:21
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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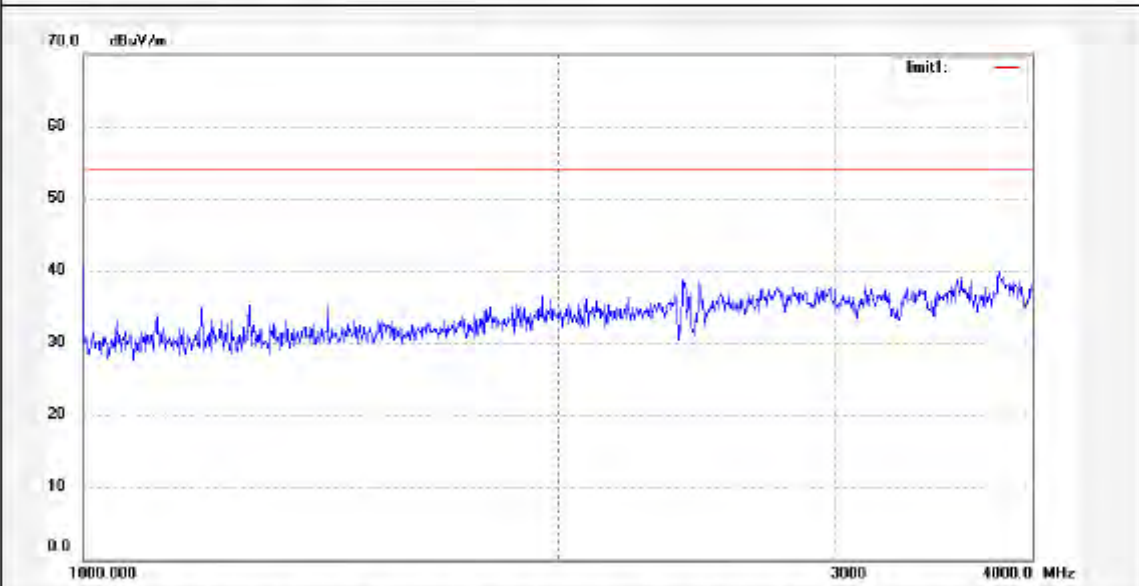
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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #824	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:43:24
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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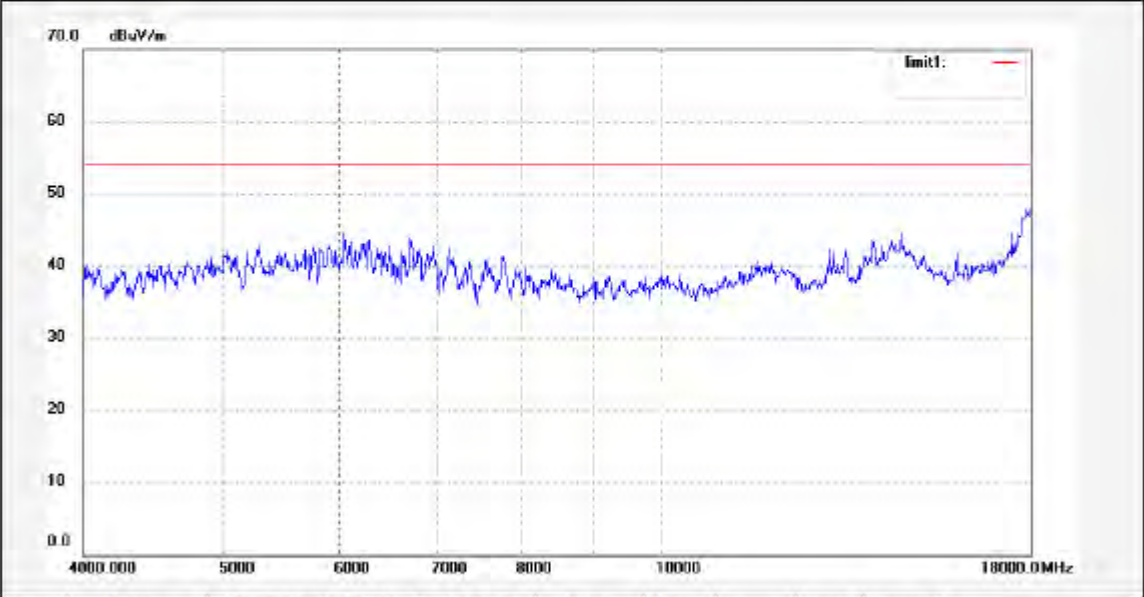
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #826	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:46:06
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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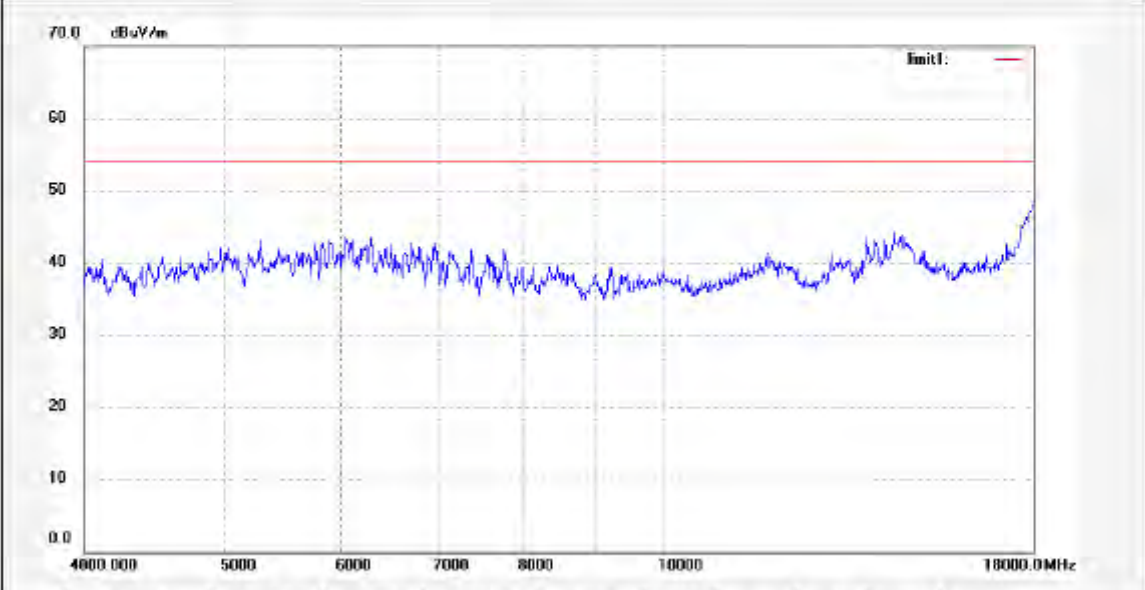
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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #825	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:45:04
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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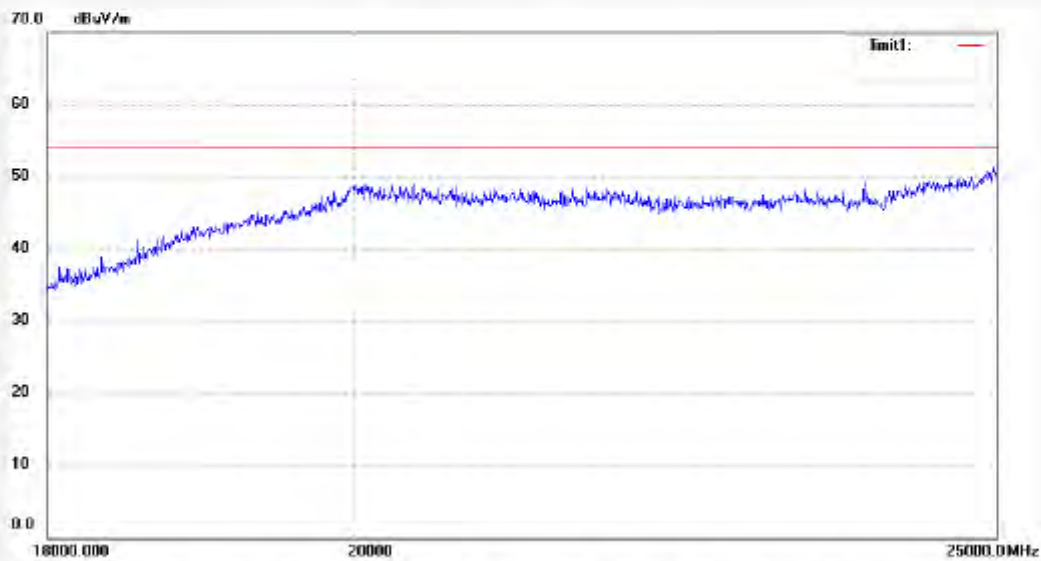
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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #827	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:47:26
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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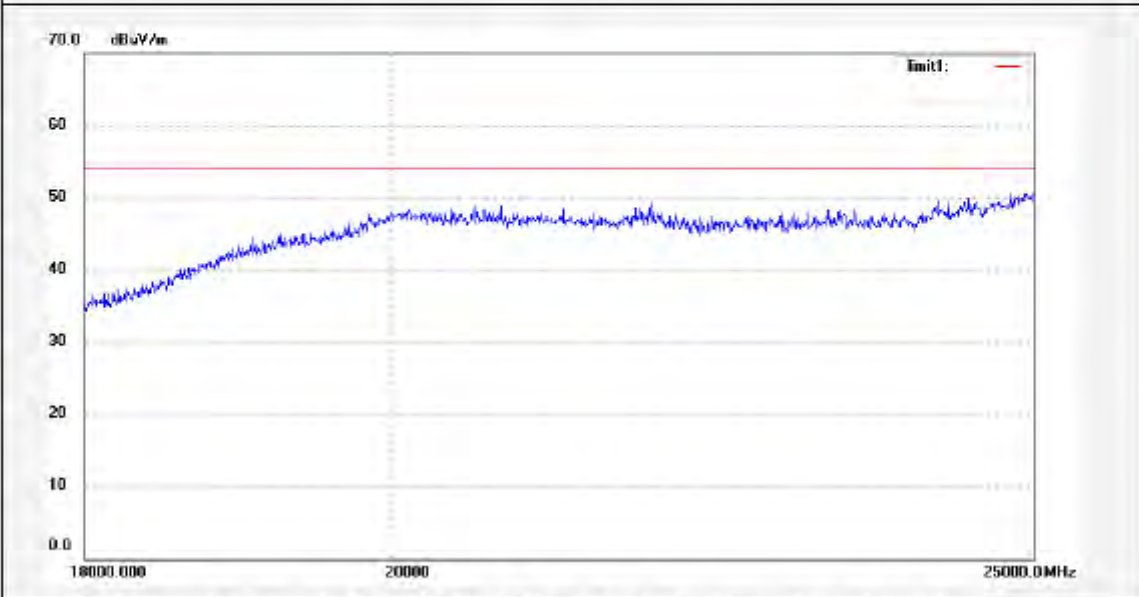
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Kai #828	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/12
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 20:49:08
EUT: Wireless Music System	Engineer Signature: Kai
Mode: TX Channel 11 (802.11g)	Distance:
Model: ABX-N300	
Manufacturer: Zylux Acoustic Corporation	

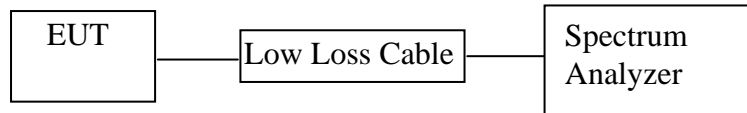
Note: Report No.:ATE20111770 Sample No.:1101802



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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10. CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

10.1. Block Diagram of Test Setup



(EUT: Wireless Music System)

10.2. The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

10.3. EUT Configuration on Measurement

The following equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.3.1. Wireless Music System (EUT)

Model Number	:	ABX-N300
Serial Number	:	N/A
Manufacturer	:	Zylux Acoustic Corporation

10.4. Operating Condition of EUT

10.4.1. Setup the EUT and simulator as shown as Section 10.1.

10.4.2. Turn on the power of all equipment.

10.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

10.5. Test Procedure

10.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

10.5.2. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

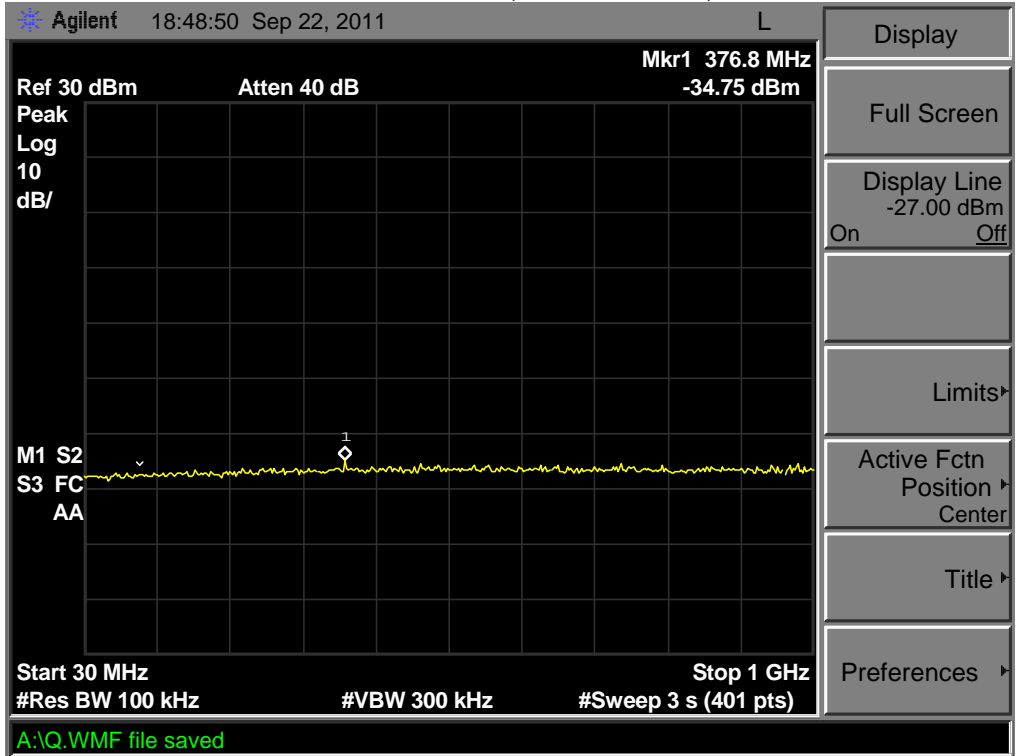
10.5.3. The Conducted Spurious Emission was measured and recorded.

10.6. Test Result

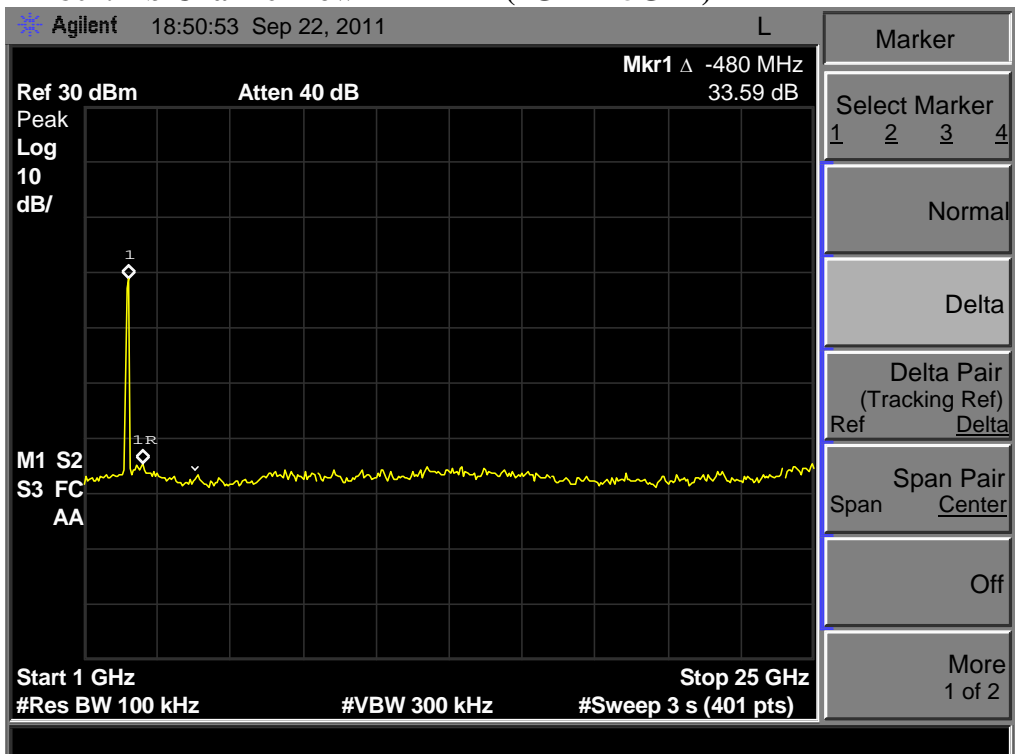
Pass.

The spectrum analyzer plots are attached as below.

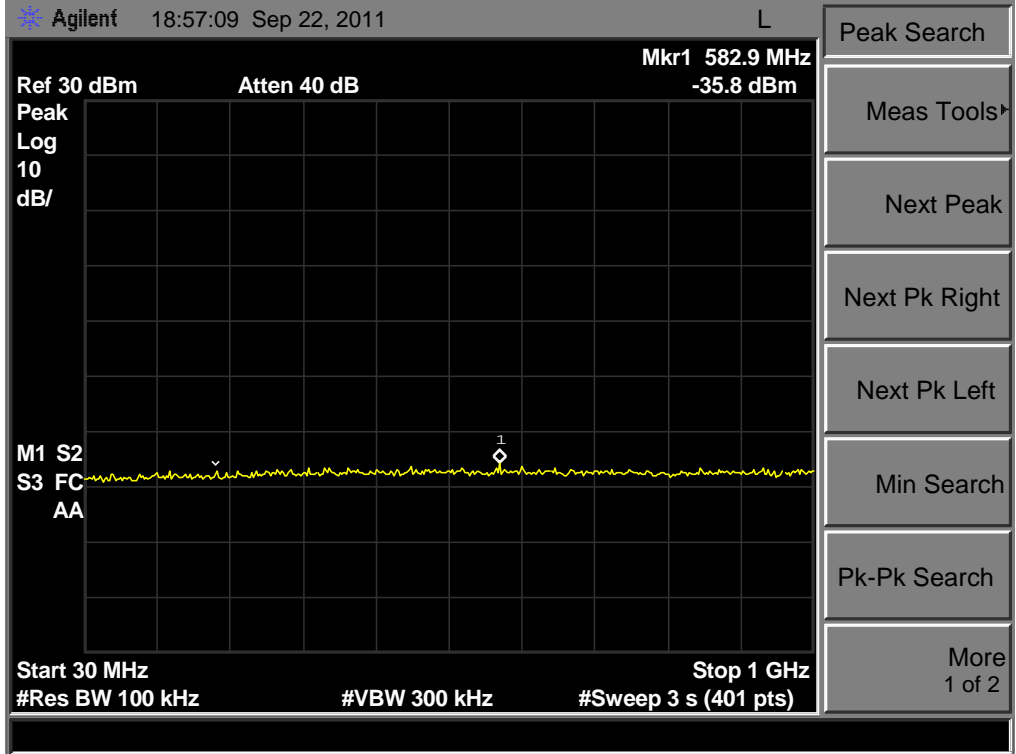
TX 802.11b Channel Low 2412MHz (30MHz-1GHz)



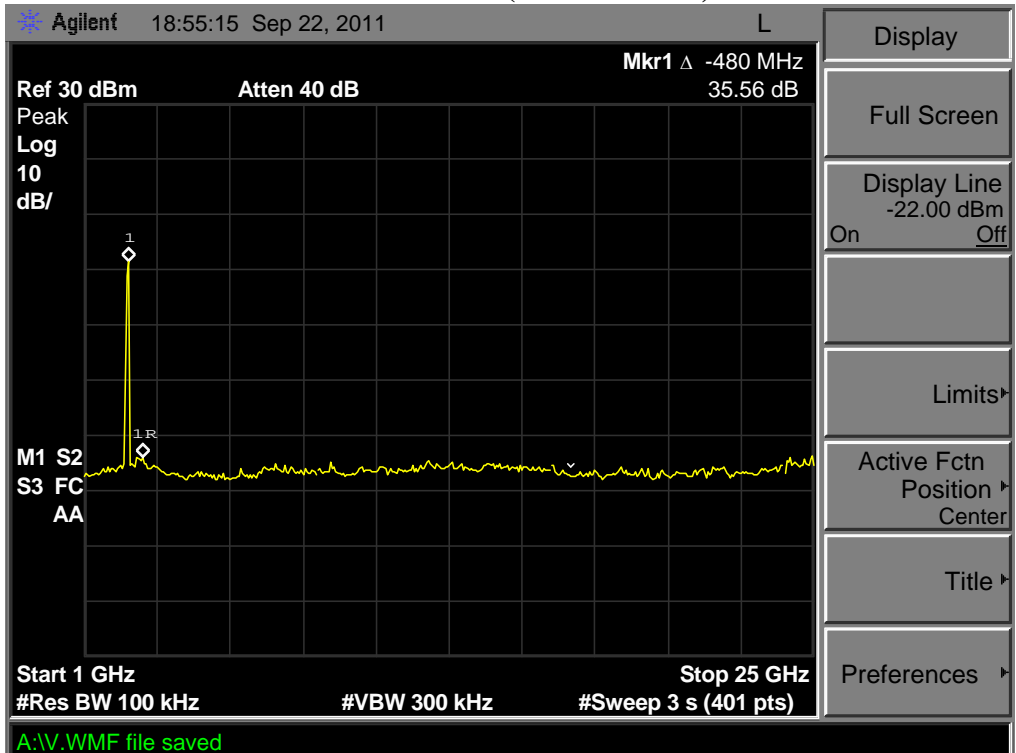
TX 802.11b Channel Low 2412MHz (1GHz-25GHz)



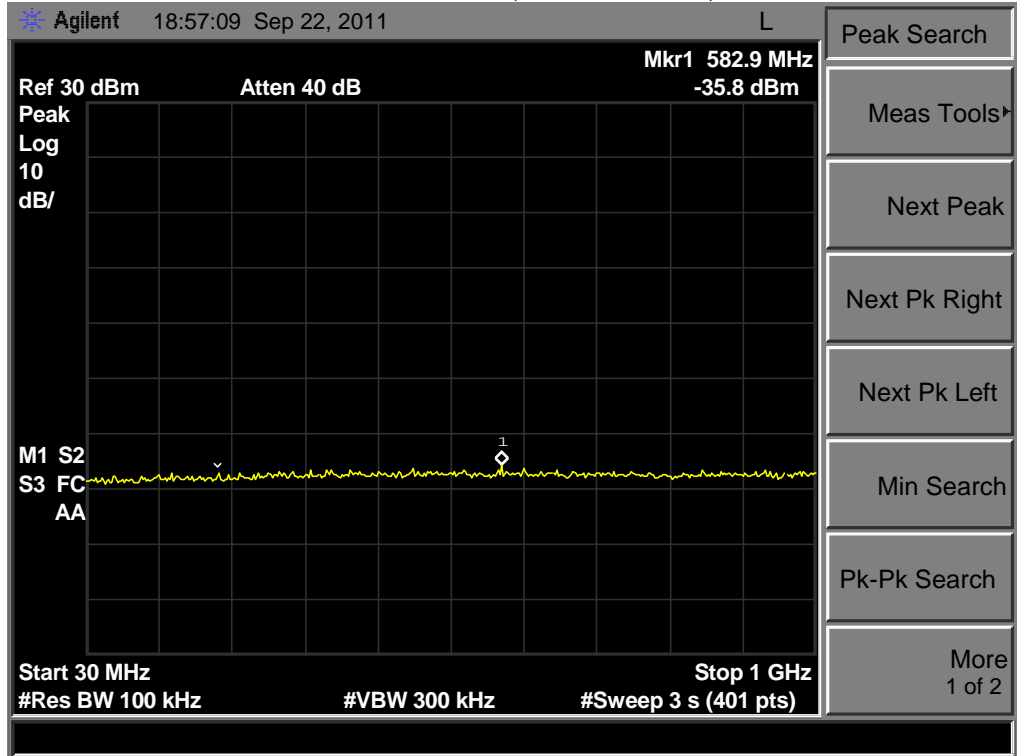
TX 802.11b Channel Low 2437MHz (30MHz-1GHz)



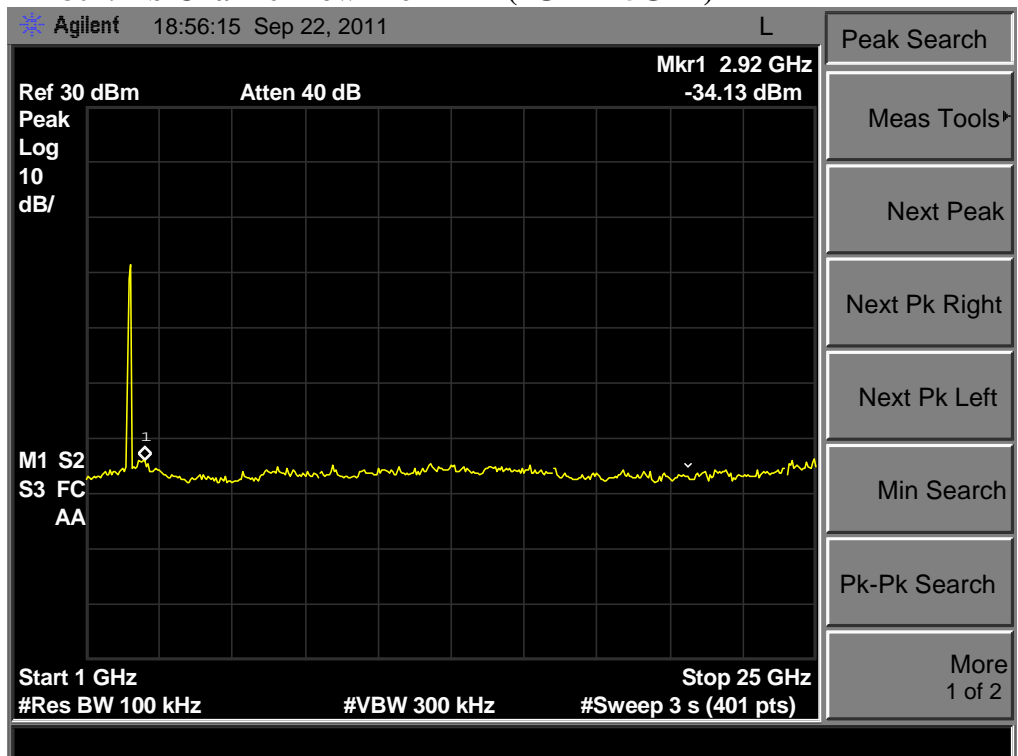
TX 802.11b Channel Low 2437MHz (1GHz-25GHz)



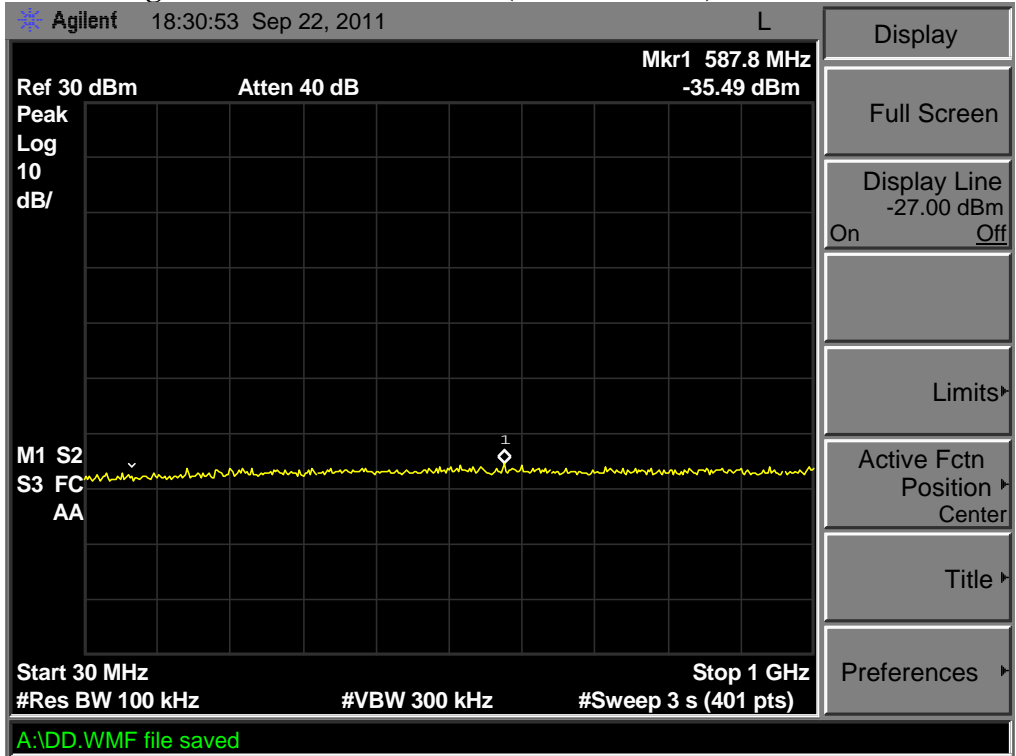
TX 802.11b Channel Low 2462MHz (30MHz-1GHz)



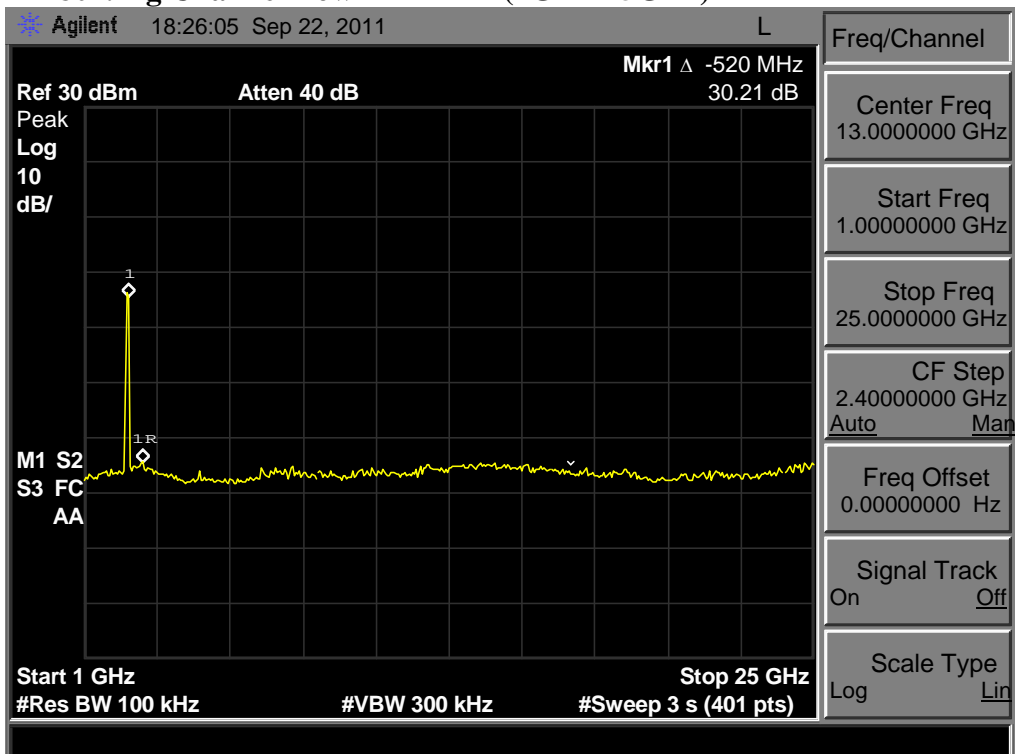
TX 802.11b Channel Low 2462MHz (1GHz-25GHz)



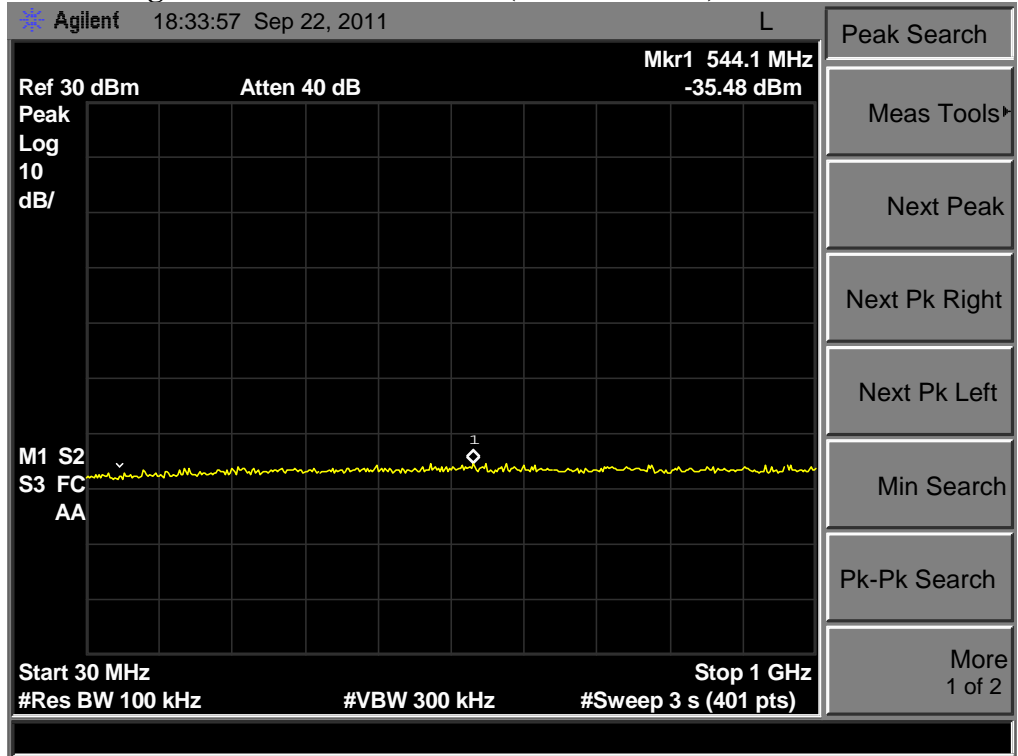
TX 802.11g Channel Low 2412MHz (30MHz-1GHz)



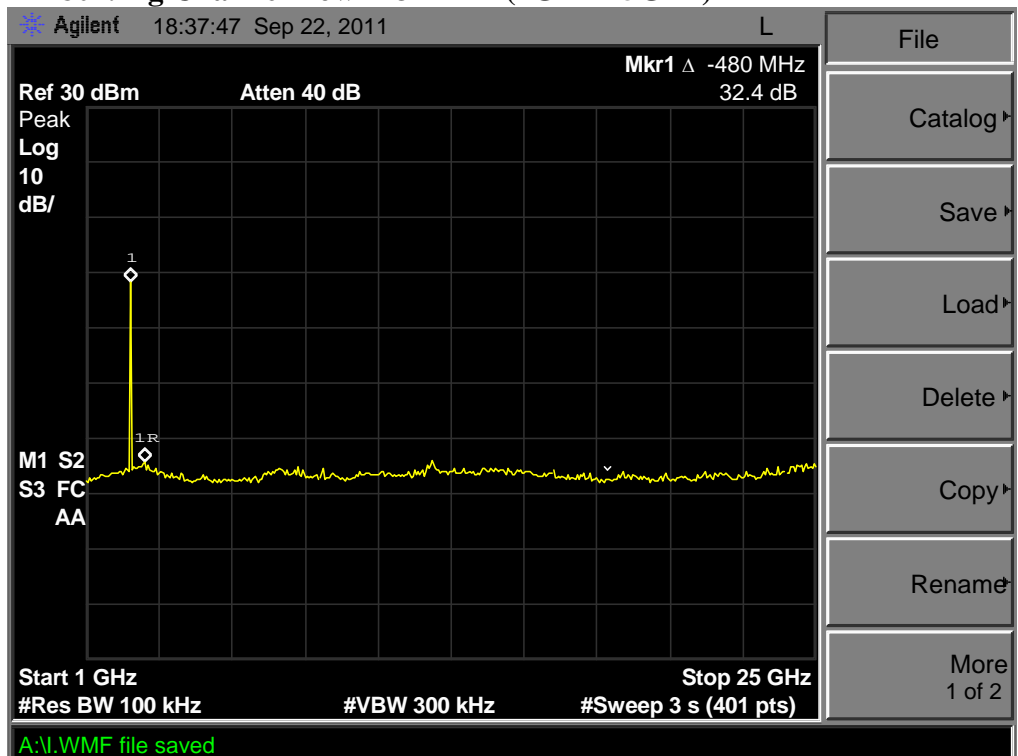
TX 802.11g Channel Low 2412MHz (1GHz-25GHz)



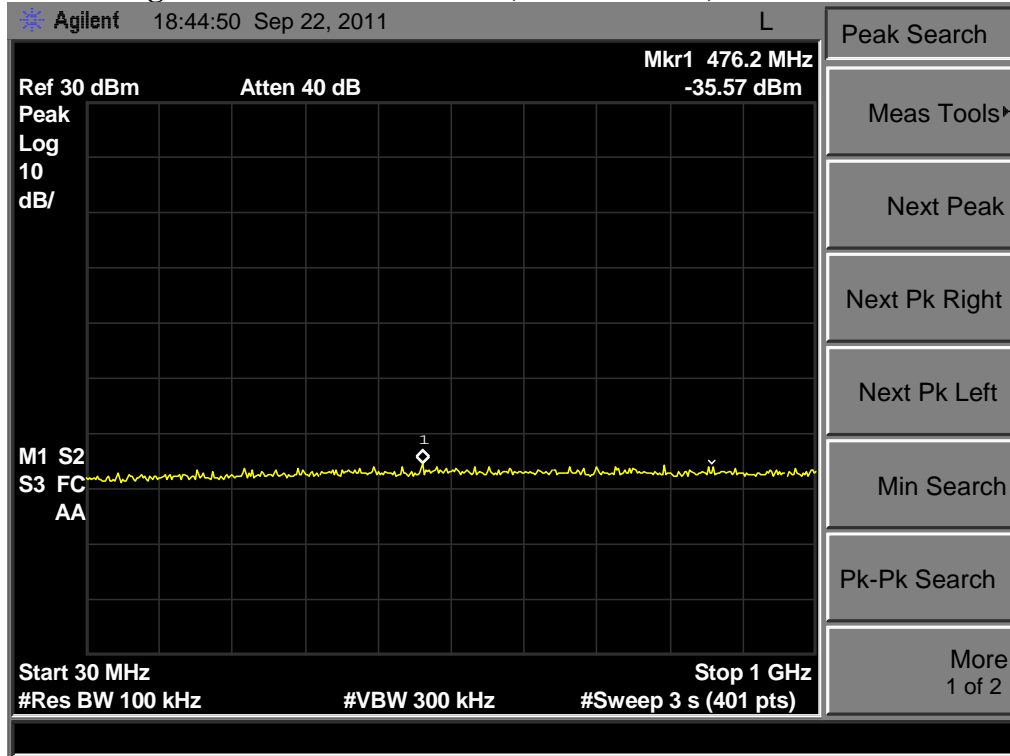
TX 802.11g Channel Low 2437MHz (30MHz-1GHz)



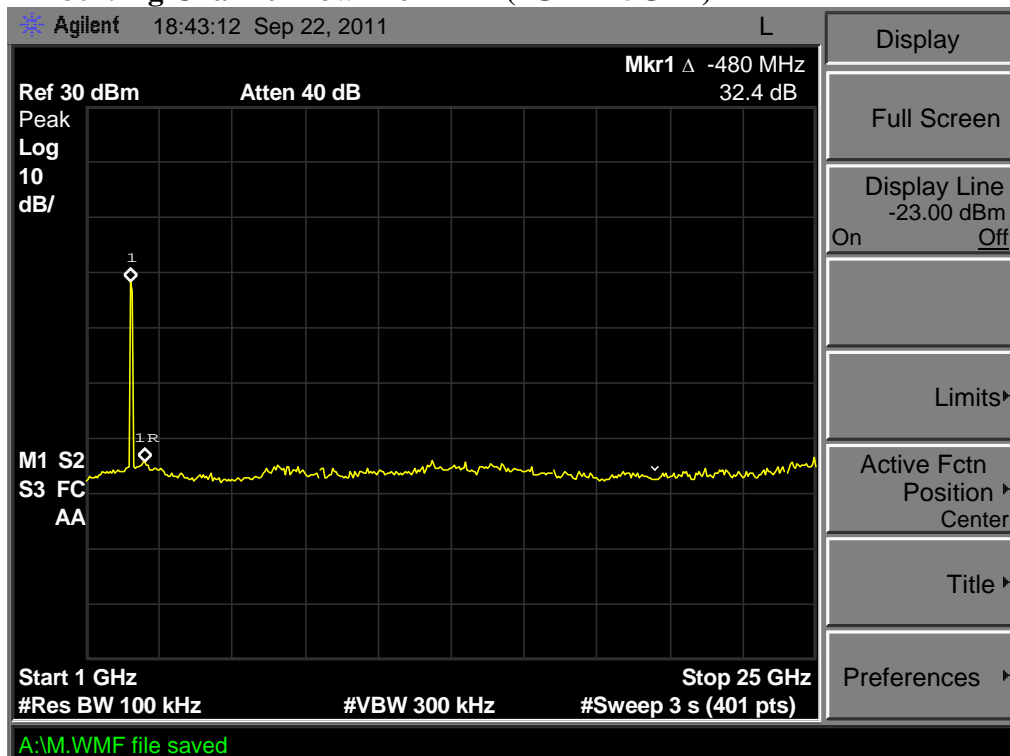
TX 802.11g Channel Low 2437MHz (1GHz-25GHz)



TX 802.11g Channel Low 2462MHz (30MHz-1GHz)



TX 802.11g Channel Low 2462MHz (1GHz-25GHz)

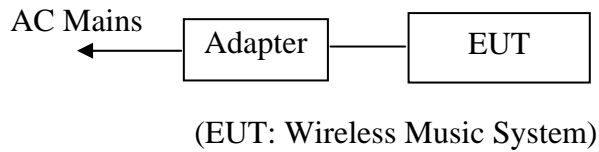


11.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

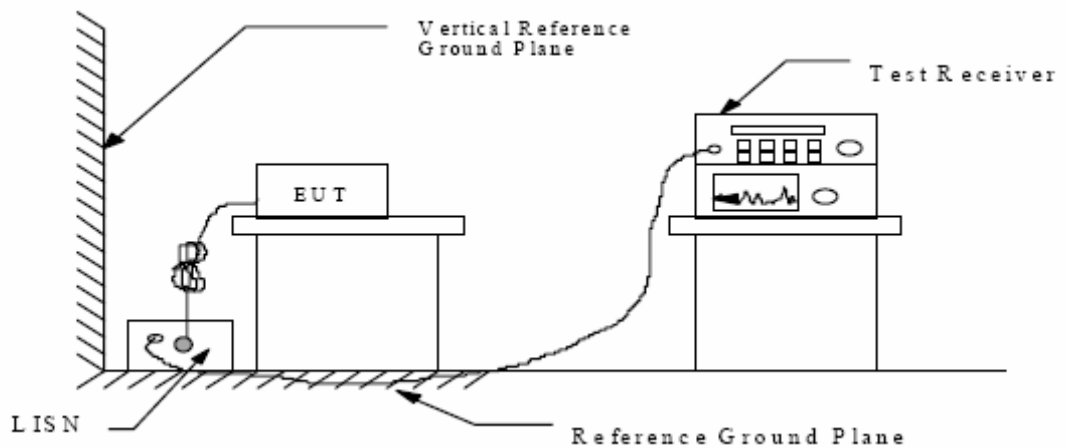
15 SECTION 15.207(A)

11.1.Block Diagram of Test Setup

11.1.1.Block diagram of connection between the EUT and simulators



11.1.2.Shielding Room Test Setup Diagram



(EUT: Wireless Music System)

11.2.The Emission Limit

11.2.1.Conducted Emission Measurement Limits According to Section 15.207(a)

Frequency (MHz)	Limit dB(μV)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 - 56.0 *	56.0 - 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

* Decreases with the logarithm of the frequency.

11.3. Configuration of EUT on Measurement

The following equipment are installed on the Conducted Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

11.3.1. Wireless Music System (EUT)

Model Number : ABX-N300
Serial Number : N/A
Manufacturer : Zylux Acoustic Corporation

11.4. Operating Condition of EUT

11.4.1. Setup the EUT and simulator as shown as Section 11.1.

11.4.2. Turn on the power of all equipment.

11.4.3. Let the EUT work in TX (802.11b Channel Middle, 802.11g Channel Middle) mode measure it.

11.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines 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 ANSI C63.4: 2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

11.6. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Date of Test:	<u>September 8, 2011</u>	Temperature:	<u>25°C</u>
EUT:	<u>Wireless Music System</u>	Humidity:	<u>50%</u>
Model No.:	<u>ABX-N300</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>TX 802.11b Channel Middle</u>	Test Engineer:	<u>Pei</u>

Frequency (MHz)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Line
0.157990	39.00	66	26.6	QP	Neutral
0.471701	32.30	57	24.2	QP	
12.014561	31.40	60	28.6	QP	
0.159256	30.20	56	25.3	AV	
0.481211	27.40	46	18.9	AV	
12.110870	24.70	50	25.3	AV	
0.157990	37.40	66	28.2	QP	Live
0.477384	29.90	56	26.5	QP	
12.454071	29.60	60	30.4	QP	
0.158622	26.00	56	29.5	AV	
0.483136	22.80	46	23.5	AV	
12.604118	24.10	50	25.9	AV	

Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

Date of Test:	<u>September 8, 2011</u>	Temperature:	<u>25°C</u>
EUT:	<u>Wireless Music System</u>	Humidity:	<u>50%</u>
Model No.:	<u>ABX-N300</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>TX 802.11g Channel Middle</u>	Test Engineer:	<u>Pei</u>

Frequency (MHz)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Line
0.155487	34.70	66	-31.0	QP	Neutral
0.466086	36.30	57	-20.3	QP	
11.824236	33.90	60	-26.1	QP	
0.156109	28.70	56	-27.0	AV	
0.475482	34.10	46	-12.3	AV	
11.824236	27.40	50	-22.6	AV	
0.151202	33.20	66	-32.7	QP	Live
0.473588	36.40	57	-20.1	QP	
12.256783	33.30	60	-26.7	QP	
00187577	33.70	54	20.4	AV	
0.475482	31.30	46	15.1	AV	
12.355033	26.90	50	23.1	AV	

Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

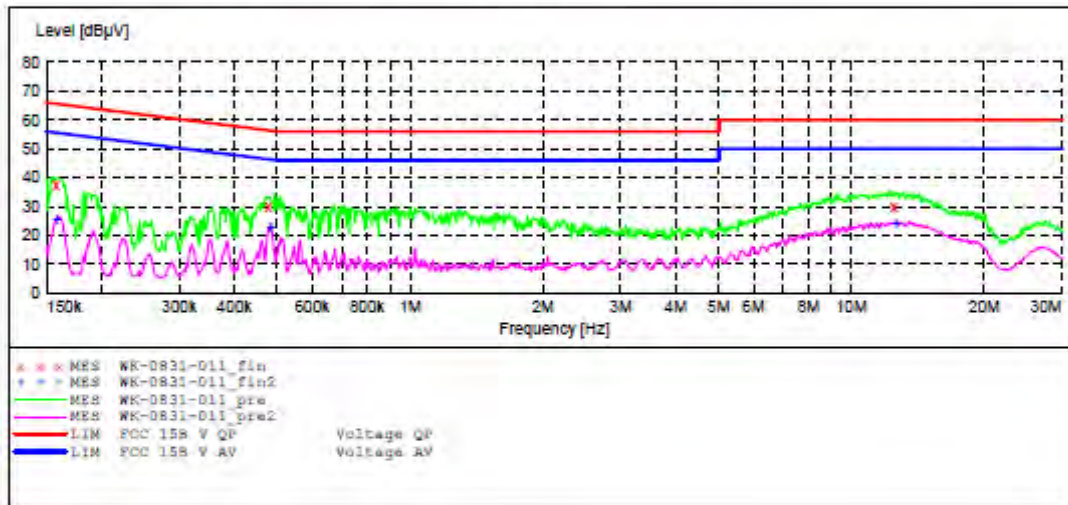
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Wireless Music System M/N:ABX-N300
 Manufacturer: Zylux Acoustic Corporation
 Operating Condition: TX Channel 6(802.11b)
 Test Site: 1#Shielding Room
 Operator: Kai
 Test Specification: L 120V/60Hz
 Comment: Mains port
 Report No.:ATE20111778 Sample No.:1101802

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 * QuasiPeak 1.0 s 9 kHz NSLK9126 2008
 Average



MEASUREMENT RESULT: "WK-0831-011_fin"

6/31/2011 8:33PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.157990	37.40	11.0	66	28.2	QP	L1	GND
0.477384	29.90	12.0	56	26.5	QP	L1	GND
12.454071	29.60	11.2	60	30.4	QP	L1	GND

MEASUREMENT RESULT: "WK-0831-011_fin2"

6/31/2011 8:33PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.158622	26.00	11.0	56	29.5	AV	L1	GND
0.483136	22.80	12.0	46	23.5	AV	L1	GND
12.604118	24.10	11.2	50	25.9	AV	L1	GND

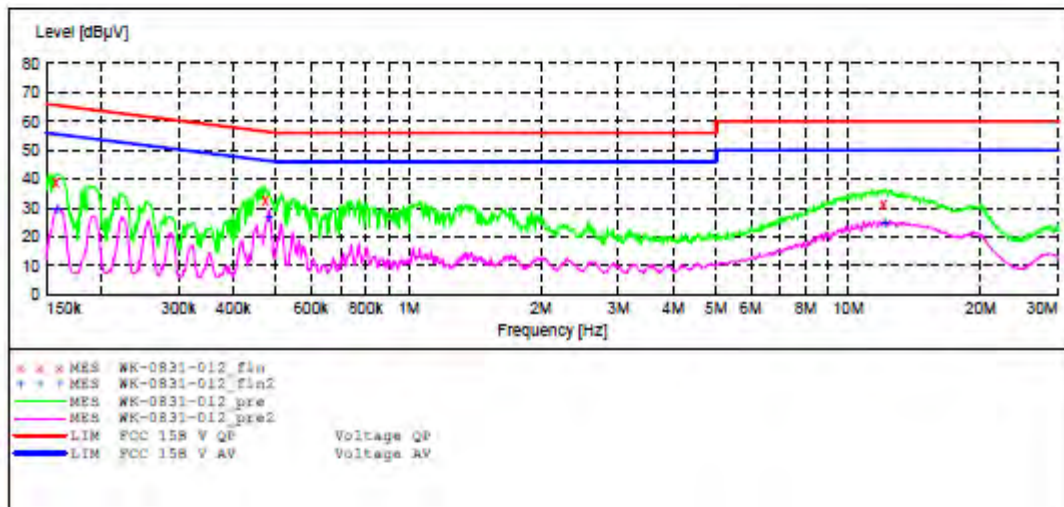
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Wireless Music System M/N:ABX-N300
 Manufacturer: Zylux Acoustic Corporation
 Operating Condition: TX Channel 6(802.11b)
 Test Site: 1#Shielding Room
 Operator: Kai
 Test Specification: N 120V/60Hz
 Comment: Mains port
 Report No.:ATE20111778 Sample No.:1101802

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 * QuasiPeak 1.0 s 9 kHz NSLK9126 2008
 Average



MEASUREMENT RESULT: "WK-0831-012_fin"

8/31/2011 9:37PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.157990	39.00	11.0	66	26.6	QP	N	GND
0.471701	32.30	12.0	57	24.2	QP	N	GND
12.014561	31.40	11.2	60	28.6	QP	N	GND

MEASUREMENT RESULT: "WK-0831-012_fin2"

8/31/2011 9:37PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.159286	30.20	11.0	56	25.3	AV	N	GND
0.461211	27.40	12.0	46	18.9	AV	N	GND
12.110870	24.70	11.2	50	25.3	AV	N	GND

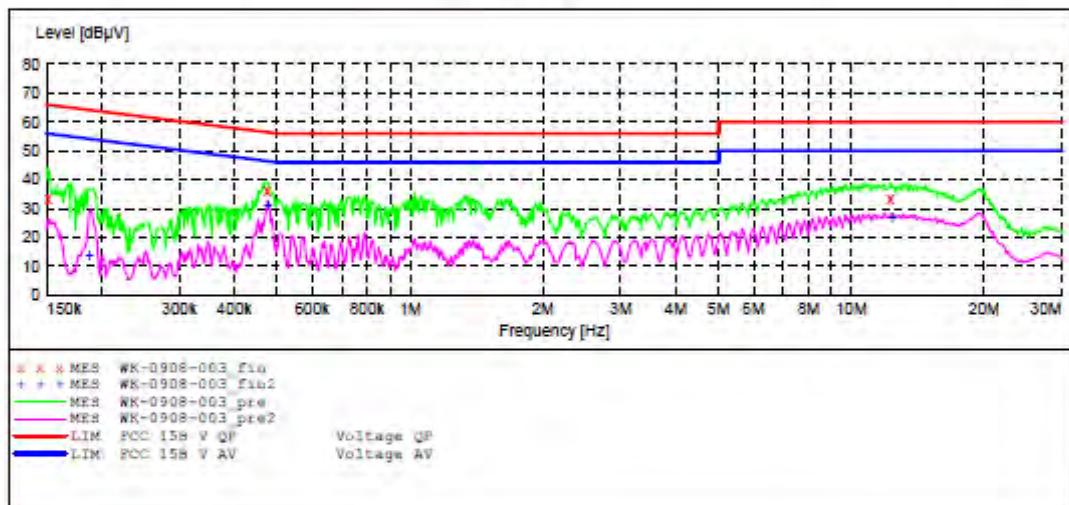
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Wireless Music System M/N:ABX-N300
 Manufacturer: Zylux Acoustic Corporation
 Operating Condition: TX Channel 6(802.11g)
 Test Site: 1#Shielding Room
 Operator: Kai
 Test Specification: L 120V/60Hz
 Comment: Mains port
 Report No.: ATE20111775 Sample No.: 1101802

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK9126 2008
 Average



MEASUREMENT RESULT: "WK-0908-003_fin"

9/8/2011 5:00PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.151202	33.20	11.0	66	32.7	QP	L1	GND
0.473588	36.40	12.0	57	20.1	QP	L1	GND
12.256783	33.30	11.2	60	26.7	QP	L1	GND

MEASUREMENT RESULT: "WK-0908-003_fin2"

9/8/2011 5:00PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.187577	33.70	11.2	54	20.4	AV	L1	GND
0.475482	31.30	12.0	46	15.1	AV	L1	GND
12.355033	26.90	11.2	50	23.1	AV	L1	GND

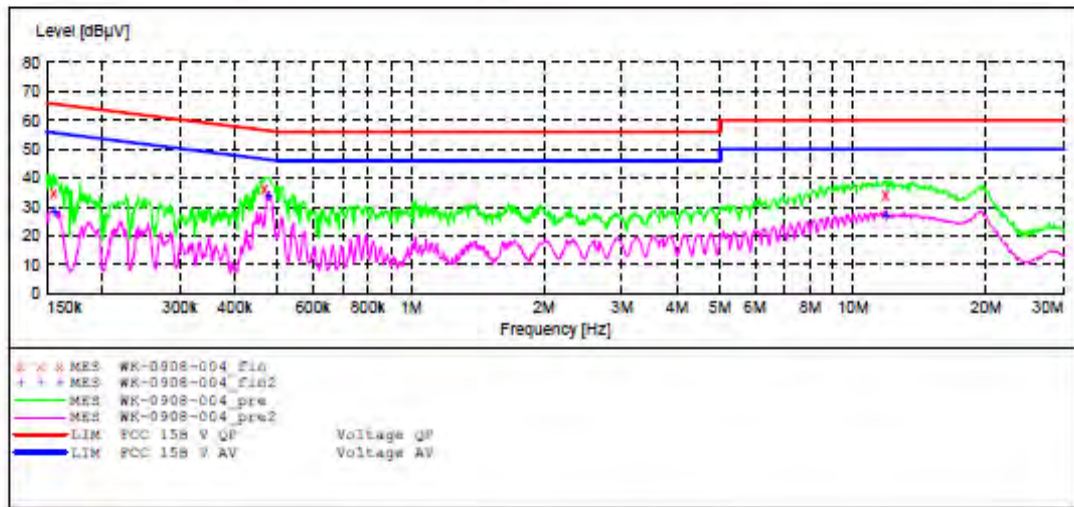
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Wireless Music System M/N:ABX-N300
 Manufacturer: Zylux Acoustic Corporation
 Operating Condition: TX Channel 6(802.11g)
 Test Site: 1#Shielding Room
 Operator: Kai
 Test Specification: N 120V/60Hz
 Comment: Mains port
 Report No.: ATE20111775 Sample No.: 1101802

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK9126 2008
 Average



MEASUREMENT RESULT: "WK-0908-004_fin"

9/8/2011 5:05PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.155487	34.70	11.0	66	31.0	QP	N	GND
0.466086	36.30	11.9	57	20.3	QP	N	GND
11.824236	33.90	11.2	60	26.1	QP	N	GND

MEASUREMENT RESULT: "WK-0908-004_fin2"

9/8/2011 5:05PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.156109	28.70	11.0	56	27.0	AV	N	GND
0.475482	34.10	12.0	46	12.3	AV	N	GND
11.824236	27.40	11.2	50	22.6	AV	N	GND

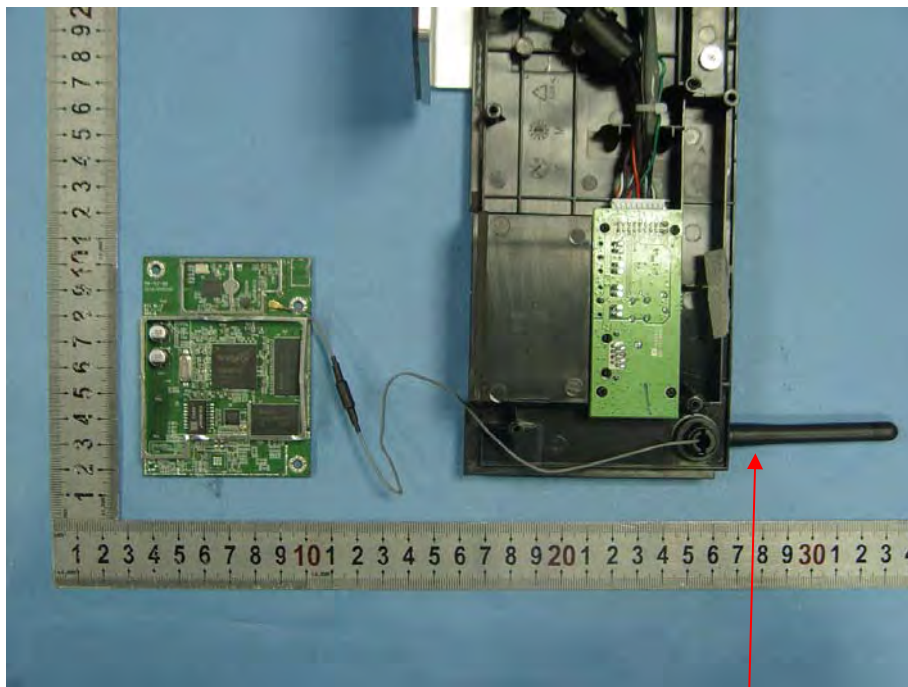
12. ANTENNA REQUIREMENT

12.1. The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

12.2. Antenna Construction

Device is equipped with unique antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna