

APPLICATION CERTIFICATION FCC Part 15B
On Behalf of
HONG KONG NATURAL SOUND ELECTRONICS LIMITED

MID
Model No.: PC7011, X-Treme 7" Tablet

FCC ID: PWK-PC7011

Prepared for : HONG KONG NATURAL SOUND ELECTRONICS
LIMITED
Address : FLAT/RM M 4/F CONTINENTAL MANSION 300
KING'S ROAD HK
Prepared by : ACCURATE TECHNOLOGY CO. LTD
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Report Number : ATE20121900
Date of Test : Aug 16-Sep 7, 2012
Date of Report : Sep 7, 2012

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Test Report Certification

Applicant : HONG KONG NATURAL SOUND ELECTRONICS LIMITED
Manufacturer : ShenZhen Natural Sound Electronics Co., Ltd
EUT Description : MID
(A) MODEL NO.: PC7011, X-Treme 7" Tablet
(B) SERIAL NO.: N/A
(C) POWER SUPPLY: DC 3.7V (Li-polymer battery) & AC 120V/60Hz
(Adapter input)

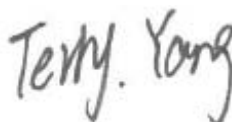
Measurement Procedure Used:


FCC Rules and Regulations Part 15 Subpart B ANSI C63.4: 2009

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 B 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 : Aug 16-Sep 7, 2012

Prepared by : 
(Terry. Yang, Engineer)

Approved & Authorized Signer : 
(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	MID
Model Number	:	PC7011, X-Treme 7" Tablet Note: These models are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement. So we prepare PC7011 for test only
Power Supply	:	DC 3.7V (Li-polymer battery) & AC 120V/60Hz (Adapter input) Model number: AHZ050200-A03 Input: 100-240VAC 0.5A 50/60Hz Output: 5V 2000mA
Highest operation frequency of the EUT:	:	1.0 GHz
Applicant	:	HONG KONG NATURAL SOUND ELECTRONICS LIMITED
Address	:	FLAT/RM M 4/F CONTINENTAL MANSION 300 KING'S ROAD HK
Manufacturer	:	ShenZhen Natural Sound Electronics Co., Ltd
Address	:	4 th building, Xinyuan industrial zone, Gushu village, Bao`an district, Shenzhen, China
Date of sample received	:	Aug 16, 2012
Date of Test	:	Aug 14-Sep 7, 2012

1.2. Accessory and Auxiliary Equipment

Notebook PC : Manufacturer: Lenovo
M/N: 4290-RT8
S/N: R9-FW93G 11/08

Printer : Manufacturer: Canon
Model No.: BJC-1000SP

1.3. 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

1.4. 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 date	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 8, 2012	Jan. 7, 2013
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 8, 2012	Jan. 7, 2013
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 8, 2012	Jan. 7, 2013
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 8, 2012	Jan. 7, 2013
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 8, 2012	Jan. 7, 2013
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 8, 2012	Jan. 7, 2013
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 8, 2012	Jan. 7, 2013
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 8, 2012	Jan. 7, 2013

3. OPERATION OF EUT DURING TESTING

3.1. Operating Mode

The modes are used: 1) Charging+Playing
2) Transfer data

3.2. Configuration and peripherals



(EUT: MID)

4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.107	Conducted Emission Test	Compliant
Section 15.109	Radiated Emission Test	Compliant

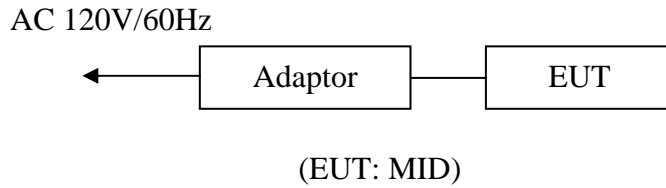
5. CONDUCTED EMISSION FOR FCC PART 15 SECTION

15.107(A)

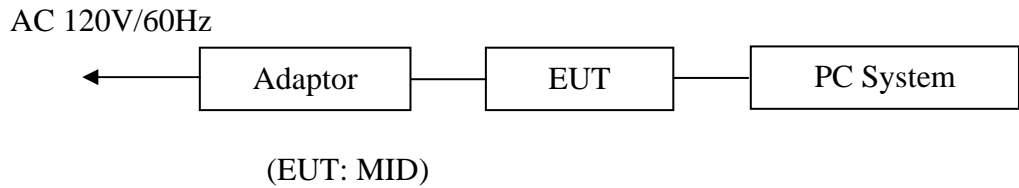
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators

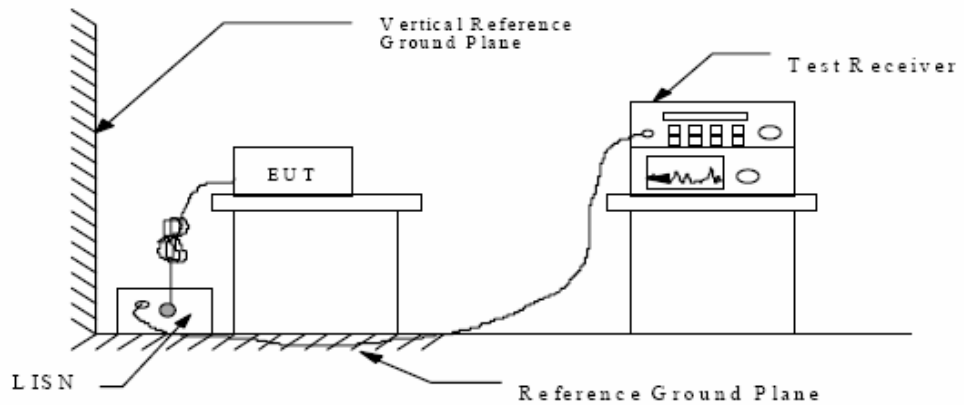
5.1.1.1. For Charging & Playing



5.1.1.2. For Transfer data



5.1.2. Shielding Room Test Setup Diagram



(EUT: MID)

5.2.The Emission Limit

5.2.1.Conducted Emission Measurement Limits According to Section 15.107(a)

Frequency (MHz)	Limit dB(μ V)	
	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.

5.3.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.

5.3.1.Tablet PC (EUT)

Model Number : PC7011
 Serial Number : N/A
 Manufacturer : ShenZhen Natural Sound Electronics Co., Ltd

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 modes (Running, Transfer data) and measure it.

5.5.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: 2009 on Conducted Emission Measurement.

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

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

5.6. Power Line Conducted Emission Measurement Results

PASS.

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

Date of Test:	<u>Sep 7, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC7011</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>Charging&Playing</u>	Test Engineer:	<u>Bob</u>

MEASUREMENT RESULT: "H-0429-4_fin"

9/07/2012 1:52PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.289837	48.40	11.5	61	12.1	QP	N	GND
0.311430	51.70	11.6	60	8.2	QP	N	GND
0.361001	51.90	11.7	59	6.8	QP	N	GND
0.475482	48.30	12.0	56	8.1	QP	N	GND
0.512950	48.00	12.0	56	8.0	QP	N	GND
4.932760	47.50	11.4	56	8.5	QP	N	GND

MEASUREMENT RESULT: "H-0429-4_fin2"

9/07/2012 1:52PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.317709	39.40	11.6	50	10.4	AV	N	GND
0.355282	40.00	11.7	49	8.8	AV	N	GND
0.471701	35.50	12.0	47	11.0	AV	N	GND
0.519130	35.60	12.0	46	10.4	AV	N	GND
4.932760	37.30	11.4	46	8.7	AV	N	GND
5.809947	40.40	11.4	50	9.6	AV	N	GND

MEASUREMENT RESULT: "H-0429-5_fin"

9/07/2012 1:55PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.307723	51.90	11.6	60	8.1	QP	L1	GND
0.353867	52.10	11.7	59	6.8	QP	L1	GND
0.433769	51.40	11.9	57	5.8	QP	L1	GND
0.523291	49.40	12.0	56	6.6	QP	L1	GND
0.689239	51.10	11.9	56	4.9	QP	L1	GND
4.932760	50.80	11.4	56	5.2	QP	L1	GND

MEASUREMENT RESULT: "H-0429-5_fin2"

9/07/2012 1:55PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.313927	40.70	11.6	50	9.2	AV	L1	GND
0.358130	42.80	11.7	49	6.0	AV	L1	GND
0.442514	39.10	11.9	47	7.9	AV	L1	GND
0.477384	39.40	12.0	46	7.0	AV	L1	GND
4.913107	41.10	11.4	46	4.9	AV	L1	GND
5.856520	43.90	11.4	50	6.1	AV	L1	GND

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

Date of Test:	<u>August 31, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC7011</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>Transfer data</u>	Test Engineer:	<u>Bob</u>

MEASUREMENT RESULT: "H-0429-6_fin"

9/07/2012 2:02PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.316443	49.80	11.6	60	10.0	QP	L1	GND
0.352457	49.60	11.7	59	9.3	QP	L1	GND
0.440751	49.50	11.9	57	7.5	QP	L1	GND
0.529596	46.60	12.0	56	9.4	QP	L1	GND
0.686493	48.50	11.9	56	7.5	QP	L1	GND
4.952491	48.00	11.4	56	8.0	QP	L1	GND

MEASUREMENT RESULT: "H-0429-6_fin2"

9/07/2012 2:02PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.316443	38.80	11.6	50	11.0	AV	L1	GND
0.355282	39.60	11.7	49	9.2	AV	L1	GND
0.442514	37.50	11.9	47	9.5	AV	L1	GND
0.479294	37.40	12.0	46	9.0	AV	L1	GND
0.638894	36.40	11.9	46	9.6	AV	L1	GND
4.992190	38.70	11.4	46	7.3	AV	L1	GND

MEASUREMENT RESULT: "H-0429-7_fin"

9/07/2012 2:06PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.306497	48.20	11.6	60	11.9	QP	N	GND
0.352457	49.10	11.7	59	9.8	QP	N	GND
0.475482	45.50	12.0	56	10.9	QP	N	GND
0.510906	45.20	12.0	56	10.8	QP	N	GND
0.681033	44.80	11.9	56	11.2	QP	N	GND
5.974591	47.40	11.4	60	12.6	QP	N	GND

MEASUREMENT RESULT: "H-0429-7_fin2"

9/07/2012 2:06PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.317709	36.40	11.6	50	13.4	AV	N	GND
0.361001	37.40	11.7	49	11.3	AV	N	GND
0.475482	33.50	12.0	46	12.9	AV	N	GND
0.510906	32.50	12.0	46	13.5	AV	N	GND
0.670245	32.30	11.9	46	13.7	AV	N	GND
6.046573	38.10	11.4	50	11.9	AV	N	GND

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

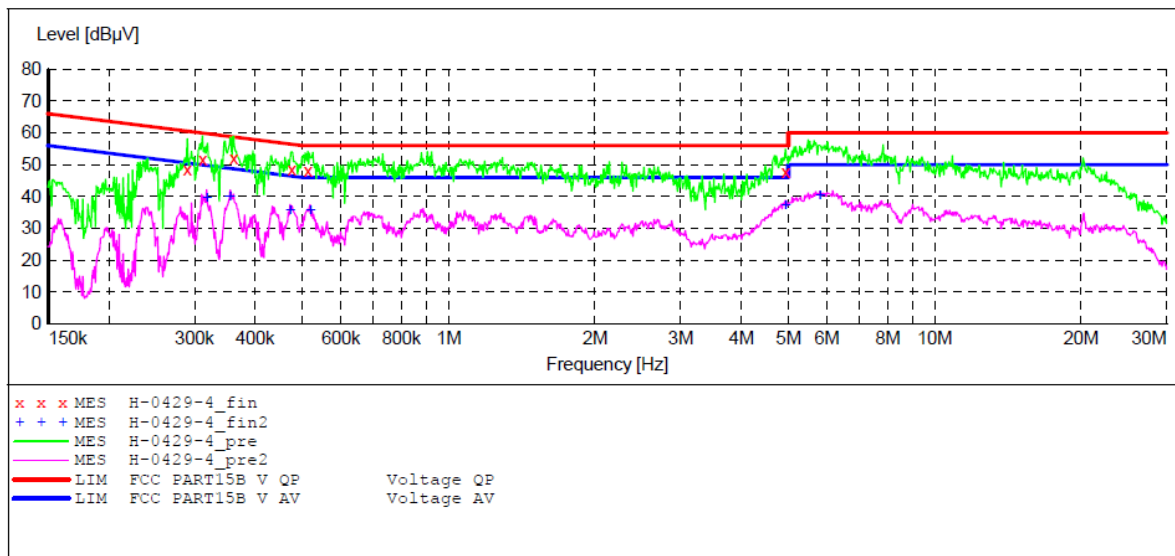
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART15B

EUT: MID M/N:PC7011
 Manufacturer: Natural Sound
 Operating Condition: Charging+Playing
 Test Site: 1#Shielding Room
 Operator: Bob
 Test Specification: N AC120V/60Hz
 Comment: Report NO.:ATE20121898
 Start of Test: 9/07/2012 / 1:49:00PM

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 NSLK8126 2008
 Average



MEASUREMENT RESULT: "H-0429-4_fin"

9/07/2012 1:52PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.289837	48.40	11.5	61	12.1	QP	N	GND
0.311430	51.70	11.6	60	8.2	QP	N	GND
0.361001	51.90	11.7	59	6.8	QP	N	GND
0.475482	48.30	12.0	56	8.1	QP	N	GND
0.512950	48.00	12.0	56	8.0	QP	N	GND
4.932760	47.50	11.4	56	8.5	QP	N	GND

MEASUREMENT RESULT: "H-0429-4_fin2"

9/07/2012 1:52PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.317709	39.40	11.6	50	10.4	AV	N	GND
0.355282	40.00	11.7	49	8.8	AV	N	GND
0.471701	35.50	12.0	47	11.0	AV	N	GND
0.519130	35.60	12.0	46	10.4	AV	N	GND
4.932760	37.30	11.4	46	8.7	AV	N	GND
5.809947	40.40	11.4	50	9.6	AV	N	GND

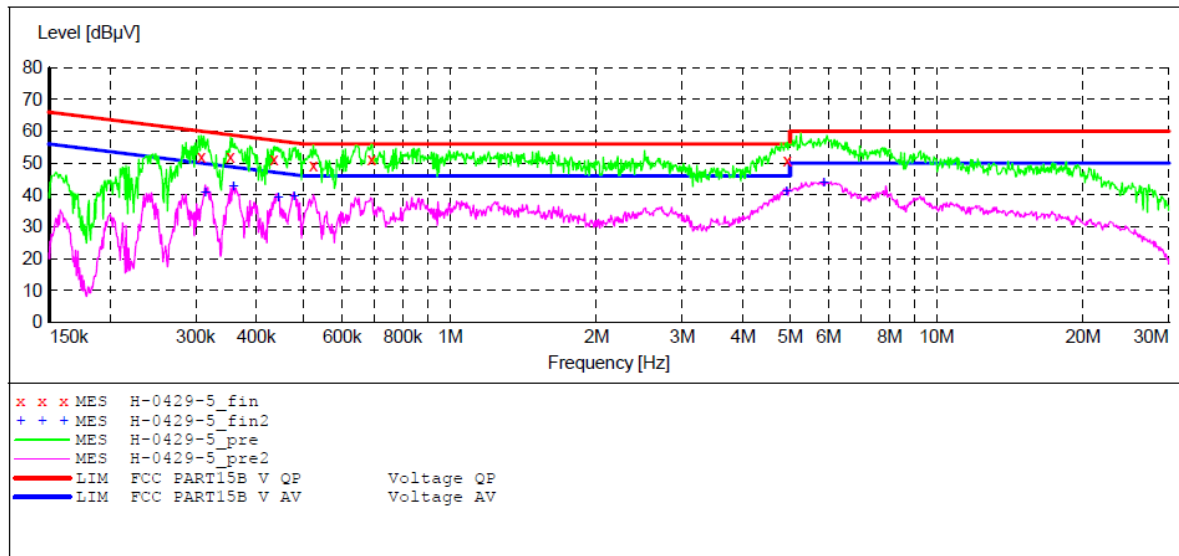
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART15B

EUT: MID M/N:PC7011
 Manufacturer: Natural Sound
 Operating Condition: Charging+Playing
 Test Site: 1#Shielding Room
 Operator: Bob
 Test Specification: L AC120V/60Hz
 Comment: Report NO.:ATE20121898
 Start of Test: 9/07/2012 / 1:52:50PM

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 NSLK8126 2008
 Average



MEASUREMENT RESULT: "H-0429-5_fin"

9/07/2012 1:55PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.307723	51.90	11.6	60	8.1	QP	L1	GND
0.353867	52.10	11.7	59	6.8	QP	L1	GND
0.433769	51.40	11.9	57	5.8	QP	L1	GND
0.523291	49.40	12.0	56	6.6	QP	L1	GND
0.689239	51.10	11.9	56	4.9	QP	L1	GND
4.932760	50.80	11.4	56	5.2	QP	L1	GND

MEASUREMENT RESULT: "H-0429-5_fin2"

9/07/2012 1:55PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.313927	40.70	11.6	50	9.2	AV	L1	GND
0.358130	42.80	11.7	49	6.0	AV	L1	GND
0.442514	39.10	11.9	47	7.9	AV	L1	GND
0.477384	39.40	12.0	46	7.0	AV	L1	GND
4.913107	41.10	11.4	46	4.9	AV	L1	GND
5.856520	43.90	11.4	50	6.1	AV	L1	GND

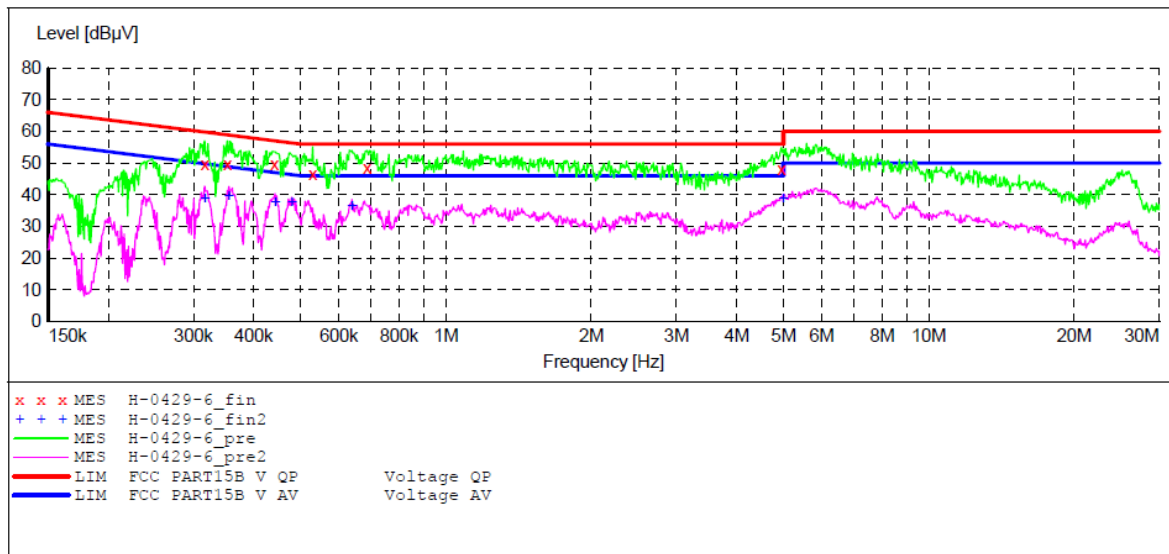
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART15B

EUT: MID M/N:PC7011
 Manufacturer: Natural Sound
 Operating Condition: Transfer Data
 Test Site: 1#Shielding Room
 Operator: Bob
 Test Specification: L AC120V/60Hz
 Comment: Report NO.:ATE20121898
 Start of Test: 9/07/2012 / 1:59:26PM

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 NSLK8126 2008
 Average



MEASUREMENT RESULT: "H-0429-6_fin"

9/07/2012 2:02PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.316443	49.80	11.6	60	10.0	QP	L1	GND
0.352457	49.60	11.7	59	9.3	QP	L1	GND
0.440751	49.50	11.9	57	7.5	QP	L1	GND
0.529596	46.60	12.0	56	9.4	QP	L1	GND
0.686493	48.50	11.9	56	7.5	QP	L1	GND
4.952491	48.00	11.4	56	8.0	QP	L1	GND

MEASUREMENT RESULT: "H-0429-6_fin2"

9/07/2012 2:02PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.316443	38.80	11.6	50	11.0	AV	L1	GND
0.355282	39.60	11.7	49	9.2	AV	L1	GND
0.442514	37.50	11.9	47	9.5	AV	L1	GND
0.479294	37.40	12.0	46	9.0	AV	L1	GND
0.638894	36.40	11.9	46	9.6	AV	L1	GND
4.992190	38.70	11.4	46	7.3	AV	L1	GND

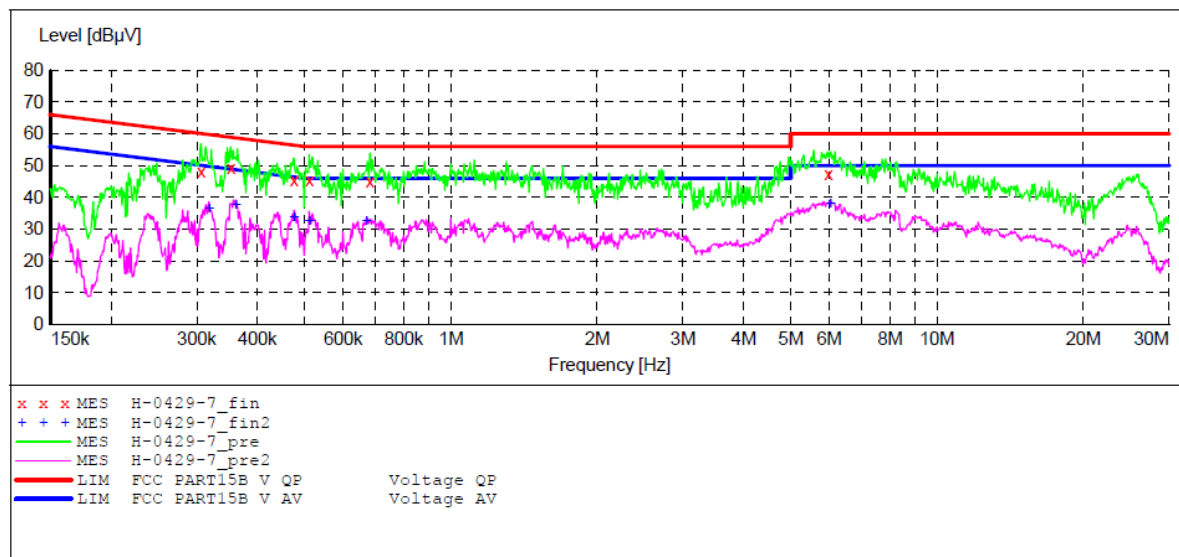
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART15B

EUT: MID M/N:PC7011
 Manufacturer: Natural Sound
 Operating Condition: Transfer Data
 Test Site: 1#Shielding Room
 Operator: Bob
 Test Specification: N AC120V/60Hz
 Comment: Report NO.:ATE20121898
 Start of Test: 9/07/2012 / 2:03:24PM

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 NSLK8126 2008
 Average



MEASUREMENT RESULT: "H-0429-7_fin"

9/07/2012 2:06PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.306497	48.20	11.6	60	11.9	QP	N	GND
0.352457	49.10	11.7	59	9.8	QP	N	GND
0.475482	45.50	12.0	56	10.9	QP	N	GND
0.510906	45.20	12.0	56	10.8	QP	N	GND
0.681033	44.80	11.9	56	11.2	QP	N	GND
5.974591	47.40	11.4	60	12.6	QP	N	GND

MEASUREMENT RESULT: "H-0429-7_fin2"

9/07/2012 2:06PM

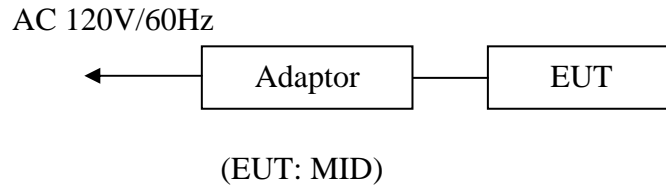
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.317709	36.40	11.6	50	13.4	AV	N	GND
0.361001	37.40	11.7	49	11.3	AV	N	GND
0.475482	33.50	12.0	46	12.9	AV	N	GND
0.510906	32.50	12.0	46	13.5	AV	N	GND
0.670245	32.30	11.9	46	13.7	AV	N	GND
6.046573	38.10	11.4	50	11.9	AV	N	GND

6. RADIATED EMISSION FOR FCC PART 15 SECTION 15.109(A)

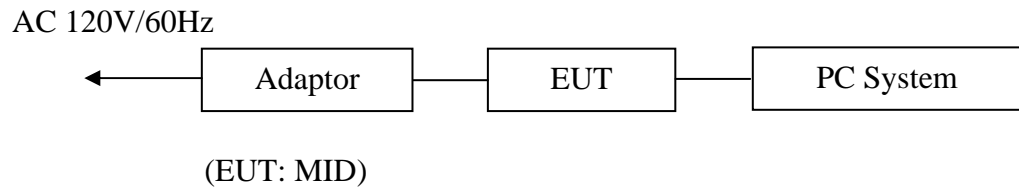
6.1. Block Diagram of Test Setup

6.1.1. Block diagram of connection between the EUT and simulators

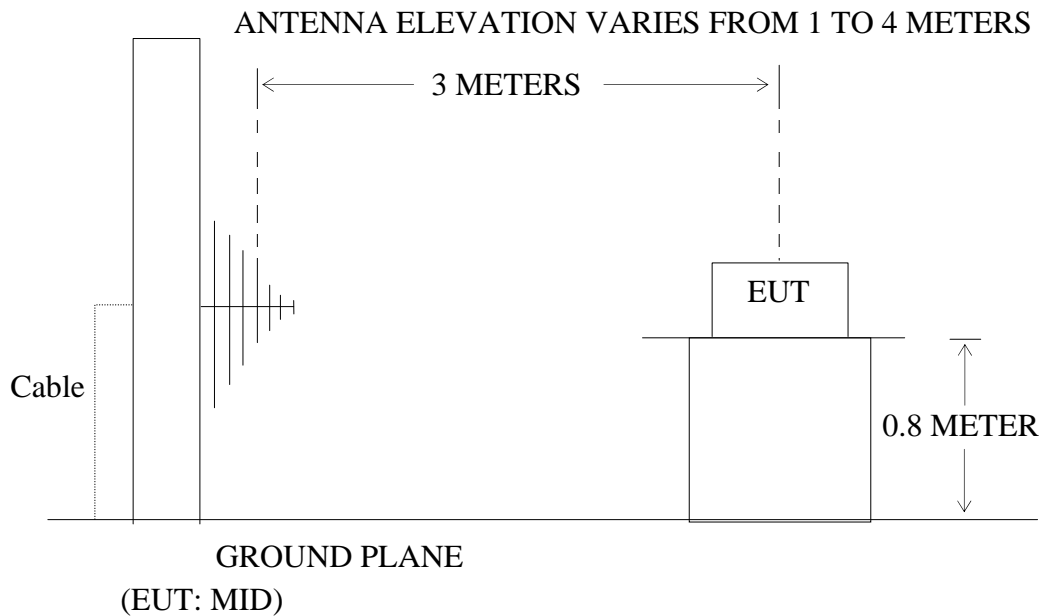
6.1.1.1. For Charging & Playing



6.1.1.2. For Transfer data



6.1.2. Semi-Anechoic Chamber Test Setup Diagram



6.2.The Emission Limit For Section 15.109 (a)

6.2.1.Radiation Emission Measurement Limits According to Section 15.109 (a).

Frequency (MHz)	Limit	
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dB μ V/m)
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

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.Tablet PC (EUT)

Model Number : PC7011
 Serial Number : N/A
 Manufacturer : ShenZhen Natural Sound Electronics Co., Ltd

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 (Charging& playing, Transfer data,) mode measure it.

6.5. 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: 2009 on radiated emission measurement.

The bandwidth of test receiver is set at 120 kHz in 30-1000MHz and 1MHz in above 1000MHz.

The frequency range from 30MHz to 6000MHz is checked.

6.6.The Emission Measurement Result

PASS.

Date of Test:	<u>September 7, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC7011</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>Charging&Playing</u>	Test Engineer:	<u>Bob</u>

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	82.8161	21.11	13.51	34.62	40.00	-5.38	QP
	2	143.7760	21.18	14.48	35.66	43.50	-7.84	QP
	3	176.8951	21.36	15.76	37.12	43.50	-6.38	QP
	4	191.7839	19.21	16.05	35.26	43.50	-8.24	QP
	5	322.5896	18.35	19.45	37.80	46.00	-8.20	QP
	6	421.3287	19.35	23.16	42.51	46.00	-3.49	QP
	Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1		107.7853	19.17	14.20	33.37	43.50	-10.13	QP
2		133.0809	19.12	14.76	33.88	43.50	-9.62	QP
3		143.7760	22.44	14.48	36.92	43.50	-6.58	QP
4		176.8951	20.32	15.76	36.08	43.50	-7.42	QP
5		389.9873	18.90	21.88	40.78	46.00	-5.22	QP
6		468.1650	19.26	23.55	42.81	46.00	-3.19	QP
Frequency: 1000-13000MHz								
Polarization								
Horizontal	-----							
Vertical	-----							

Date of Test:	<u>Sep 7, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC7011</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>Transfer data</u>	Test Engineer:	<u>Bob</u>

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	34.5270	15.55	15.73	31.28	40.00	-8.72	QP
	2	78.5644	18.26	13.10	31.36	40.00	-8.64	QP
	3	109.6957	21.18	13.98	35.16	43.50	-8.34	QP
	4	164.8910	21.85	14.66	36.51	43.50	-6.99	QP
	5	421.3287	14.46	23.16	37.62	46.00	-8.38	QP
	6	741.8155	14.39	27.53	41.92	46.00	-4.08	QP
	Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1		34.6484	15.57	16.76	32.33	40.00	-7.67	QP
2		82.8161	22.05	13.84	35.89	40.00	-4.11	QP
3		110.0818	22.57	14.01	36.58	43.50	-6.92	QP
4		150.4953	22.96	14.53	37.49	43.50	-6.01	QP
5		176.8951	23.19	15.76	38.95	43.50	-4.55	QP
6		389.9873	20.68	21.88	42.56	46.00	-3.44	QP
Frequency: 1000-13000MHz								
Polarization								
Horizontal		-----						
Vertical		-----						

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:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$

3. The spectral diagrams are attached as below display the measurement of peak values.



ACCURATE TECHNOLOGY CO., LTD.

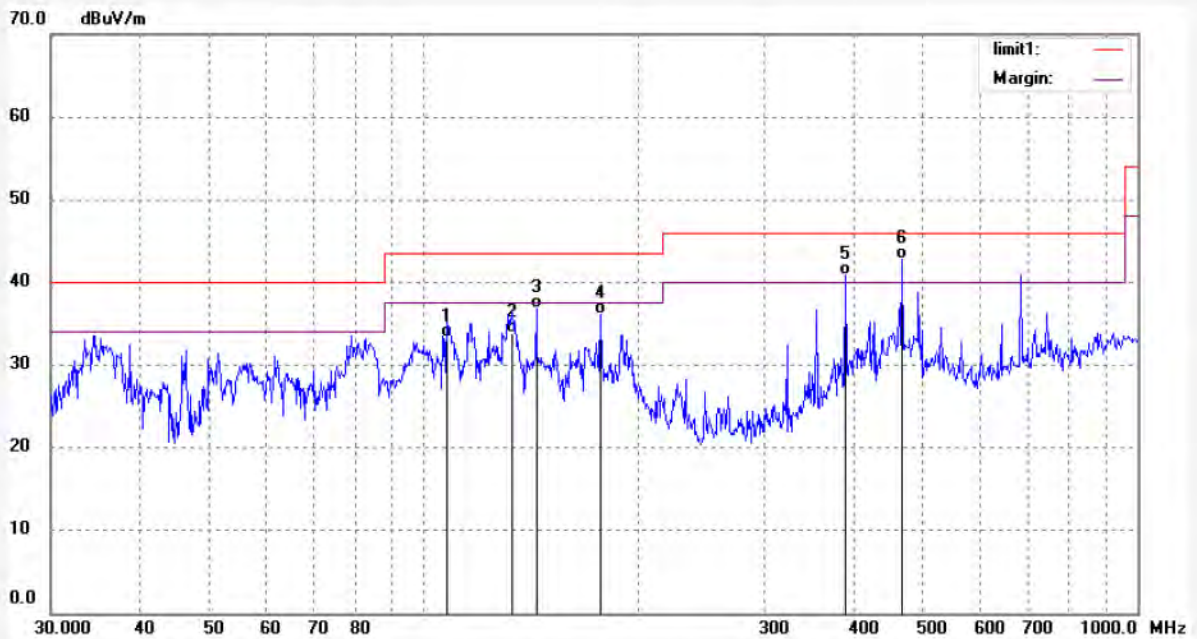
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Bob #3105
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: Charging+Playing
Model: PC7011
Manufacturer: Natural Sound

Polarization: Vertical
Power Source: AC 230V/50Hz
Date: 2012/09/7
Time: 10:19:26
Engineer Signature: Bob
Distance: 3m

Note: Report NO.:ATE20121898



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.7853	19.17	14.20	33.37	43.50	-10.13	QP			
2	133.0809	19.12	14.76	33.88	43.50	-9.62	QP			
3	143.7760	22.44	14.48	36.92	43.50	-6.58	QP			
4	176.8951	20.32	15.76	36.08	43.50	-7.42	QP			
5	389.9873	18.90	21.88	40.78	46.00	-5.22	QP			
6	468.1650	19.26	23.55	42.81	46.00	-3.19	QP			



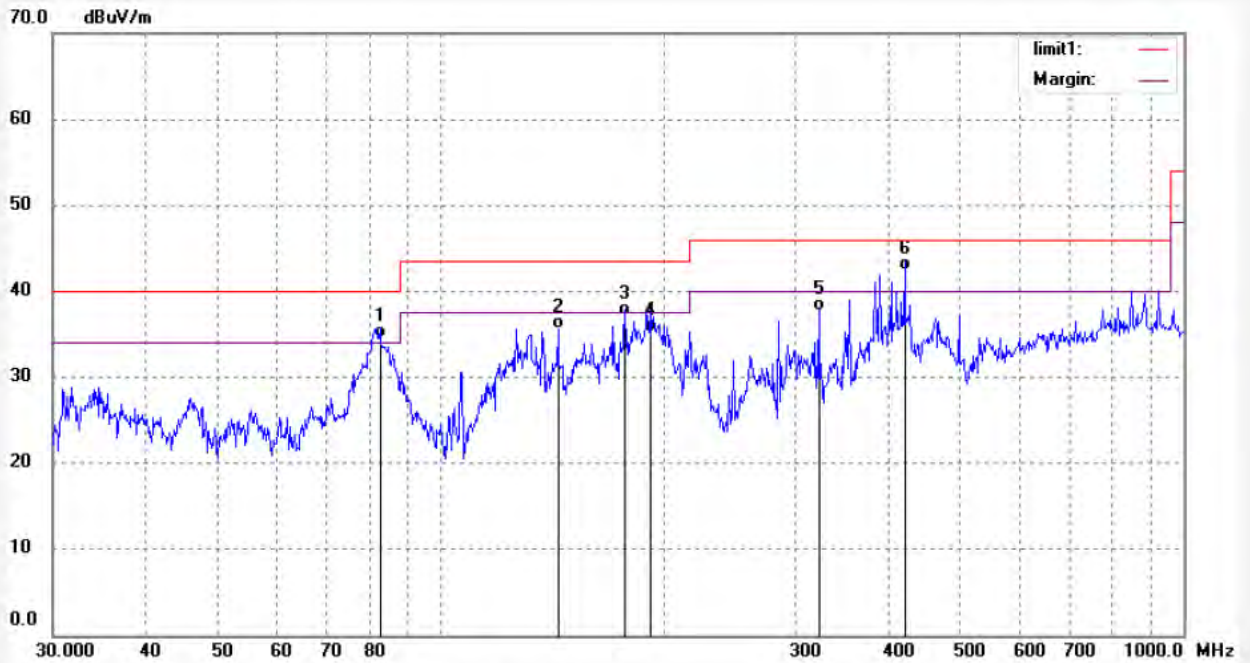
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Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Bob #3106	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 230V/50Hz
Test item: Radiation Test	Date: 2012/09/7
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 10:22:55
EUT: MID	Engineer Signature: Bob
Mode: Charging+Playing	Distance: 3m
Model: PC7011	
Manufacturer: Natural Sound	

Note: Report NO.:ATE20121898



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	82.8161	21.11	13.51	34.62	40.00	-5.38	QP			
2	143.7760	21.18	14.48	35.66	43.50	-7.84	QP			
3	176.8951	21.36	15.76	37.12	43.50	-6.38	QP			
4	191.7839	19.21	16.05	35.26	43.50	-8.24	QP			
5	322.5896	18.35	19.45	37.80	46.00	-8.20	QP			
6	421.3287	19.35	23.16	42.51	46.00	-3.49	QP			



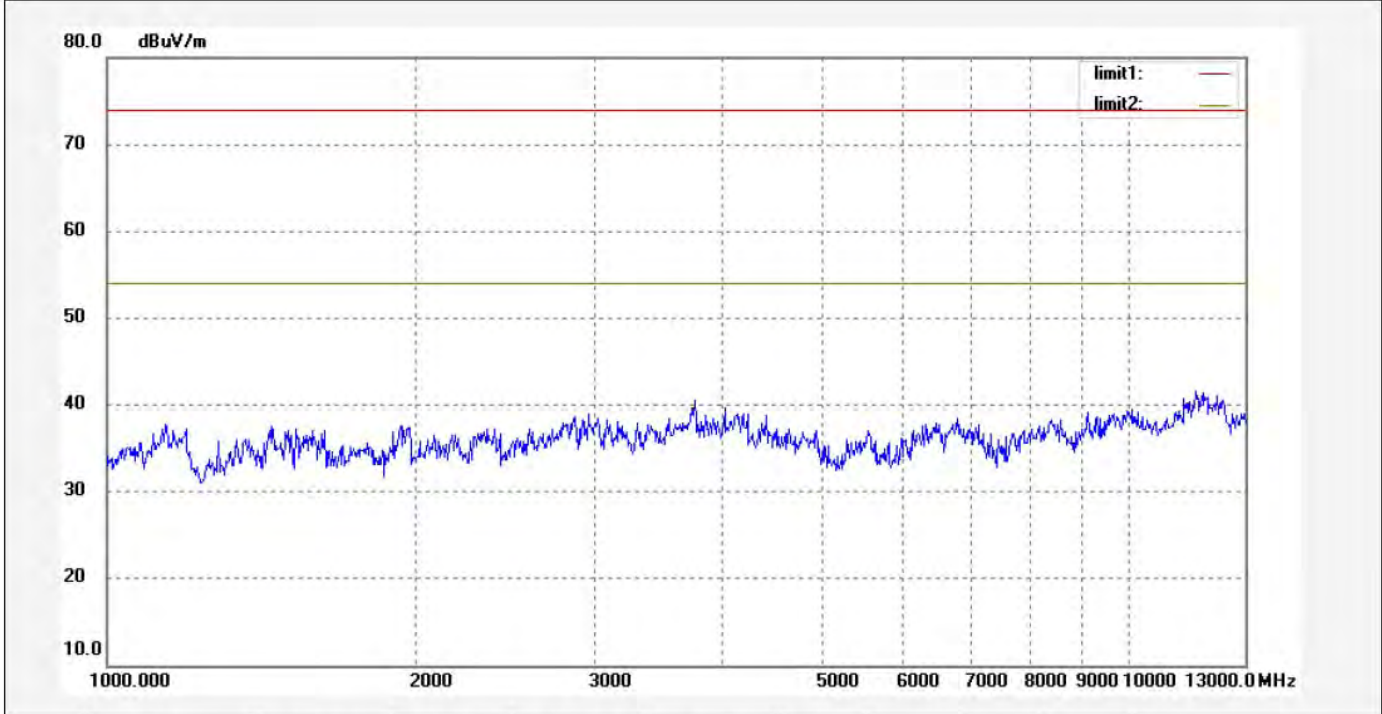
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Bob #3390	Polarization: Horizontal
Standard: FCC PART 15B (PK)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/09/07
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 14:40:53
EUT: MID	Engineer Signature: Bob
Mode: Playing+Charging	Distance: 3m
Model: PC7011	
Manufacturer: Natural Sound	

Note:



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.

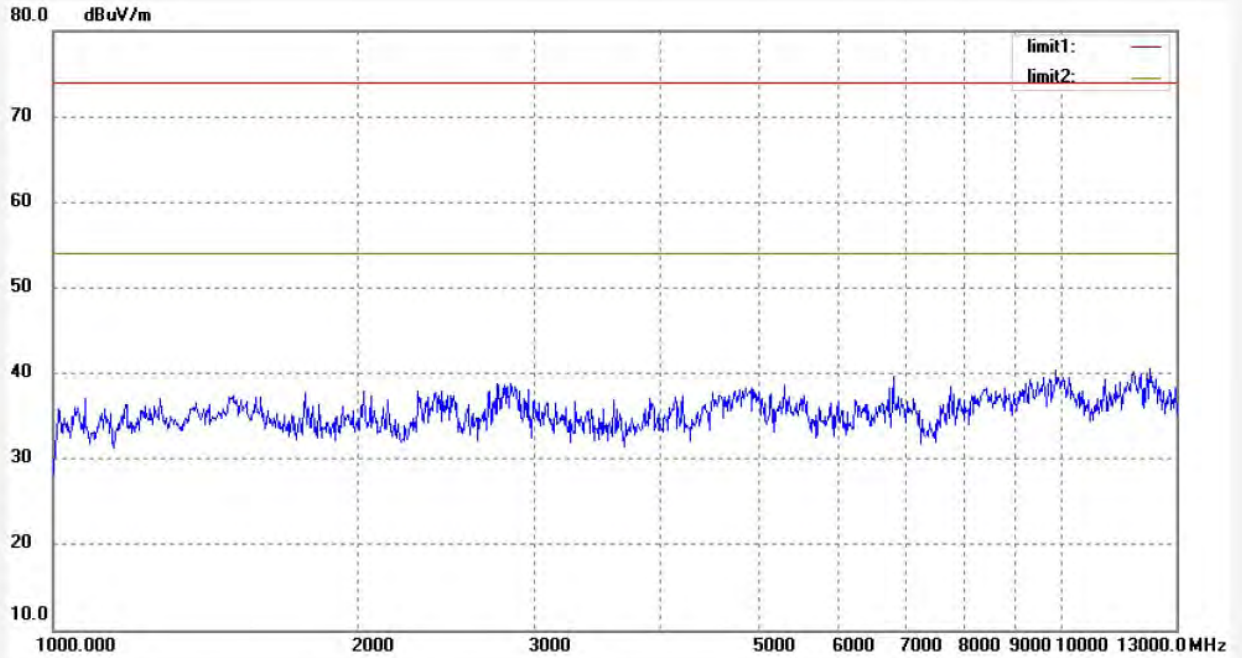
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Bob #3392
Standard: FCC PART 15B (PK)
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: Playing+Charging
Model: PC7011
Manufacturer: Natural Sound

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/09/07
Time: 14:43:07
Engineer Signature: Bob
Distance: 3m

Note:



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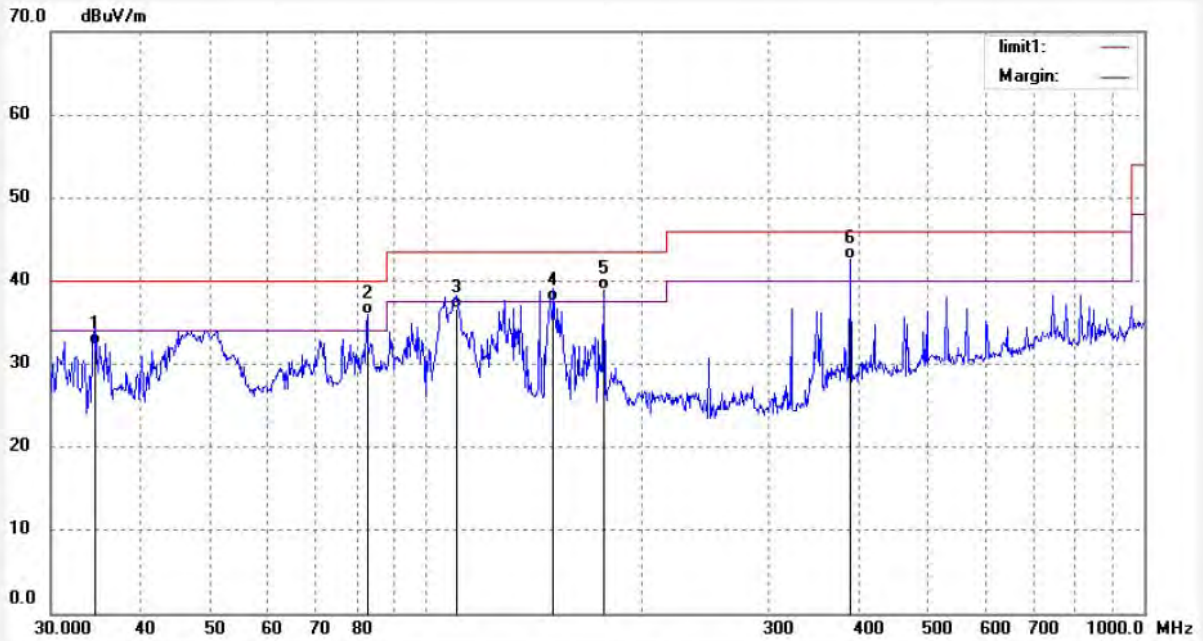
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Bob #3107
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: Transfer Data
Model: PC7011
Manufacturer: Natural Sound

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/09/7
Time: 10:25:01
Engineer Signature: Bob
Distance: 3m

Note: Report NO.:ATE20121898



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.6484	15.57	16.76	32.33	40.00	-7.67	QP			
2	82.8161	22.05	13.84	35.89	40.00	-4.11	QP			
3	110.0818	22.57	14.01	36.58	43.50	-6.92	QP			
4	150.4953	22.96	14.53	37.49	43.50	-6.01	QP			
5	176.8951	23.19	15.76	38.95	43.50	-4.55	QP			
6	389.9873	20.68	21.88	42.56	46.00	-3.44	QP			



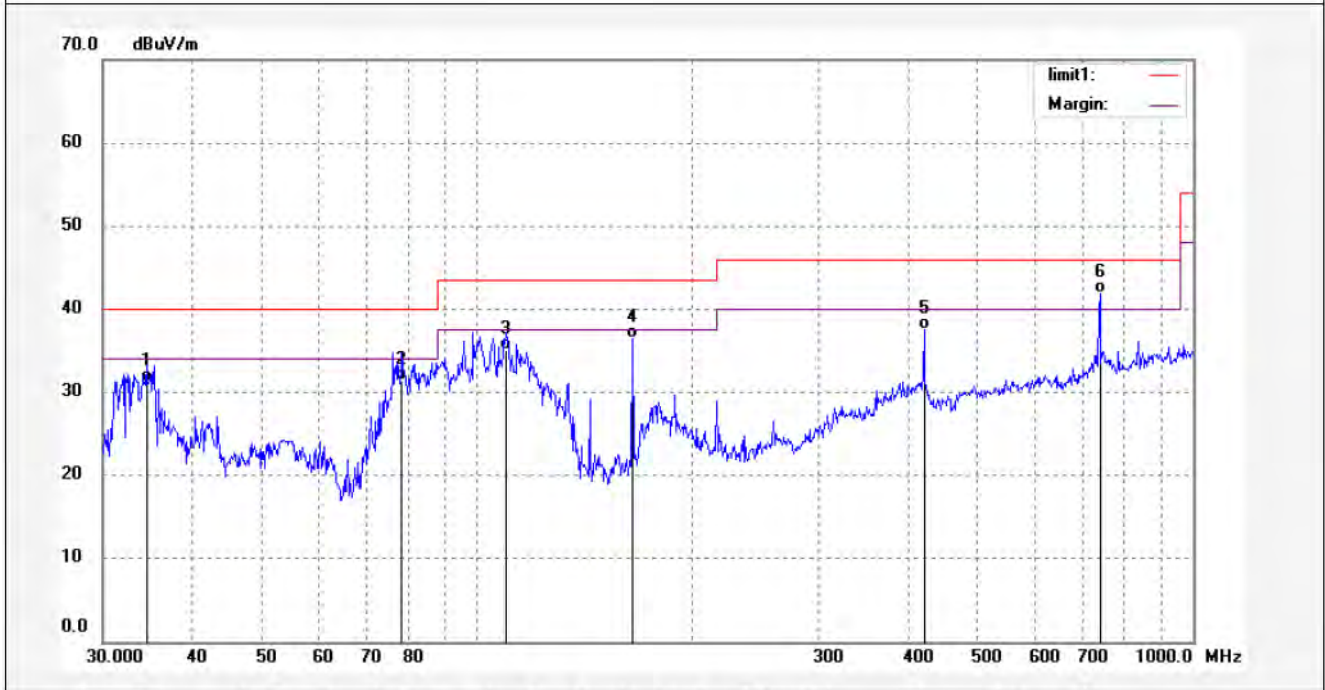
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Bob #3108	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/09/7
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 10:28:21
EUT: MID	Engineer Signature: Bob
Mode: Transfer Data	Distance: 3m
Model: PC7011	
Manufacturer: Natural Sound	

Note: Report NO.:ATE20121898



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.5270	15.55	15.73	31.28	40.00	-8.72	QP			
2	78.5644	18.26	13.10	31.36	40.00	-8.64	QP			
3	109.6957	21.18	13.98	35.16	43.50	-8.34	QP			
4	164.8910	21.85	14.66	36.51	43.50	-6.99	QP			
5	421.3287	14.46	23.16	37.62	46.00	-8.38	QP			
6	741.8155	14.39	27.53	41.92	46.00	-4.08	QP			



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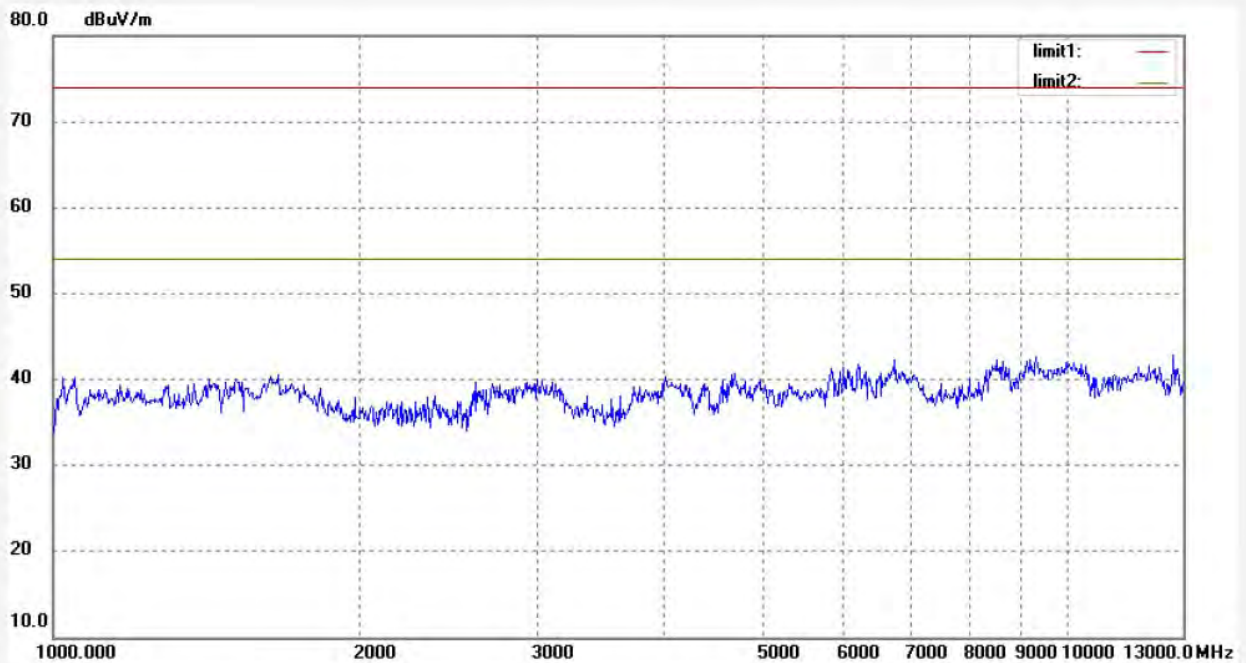
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Bob #3388
Standard: FCC PART 15B (PK)
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TRANSFER DATA
Model: PC7011
Manufacturer: Natural Sound

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/09/07
Time: 14:36:24
Engineer Signature: Bob
Distance: 3m

Note:



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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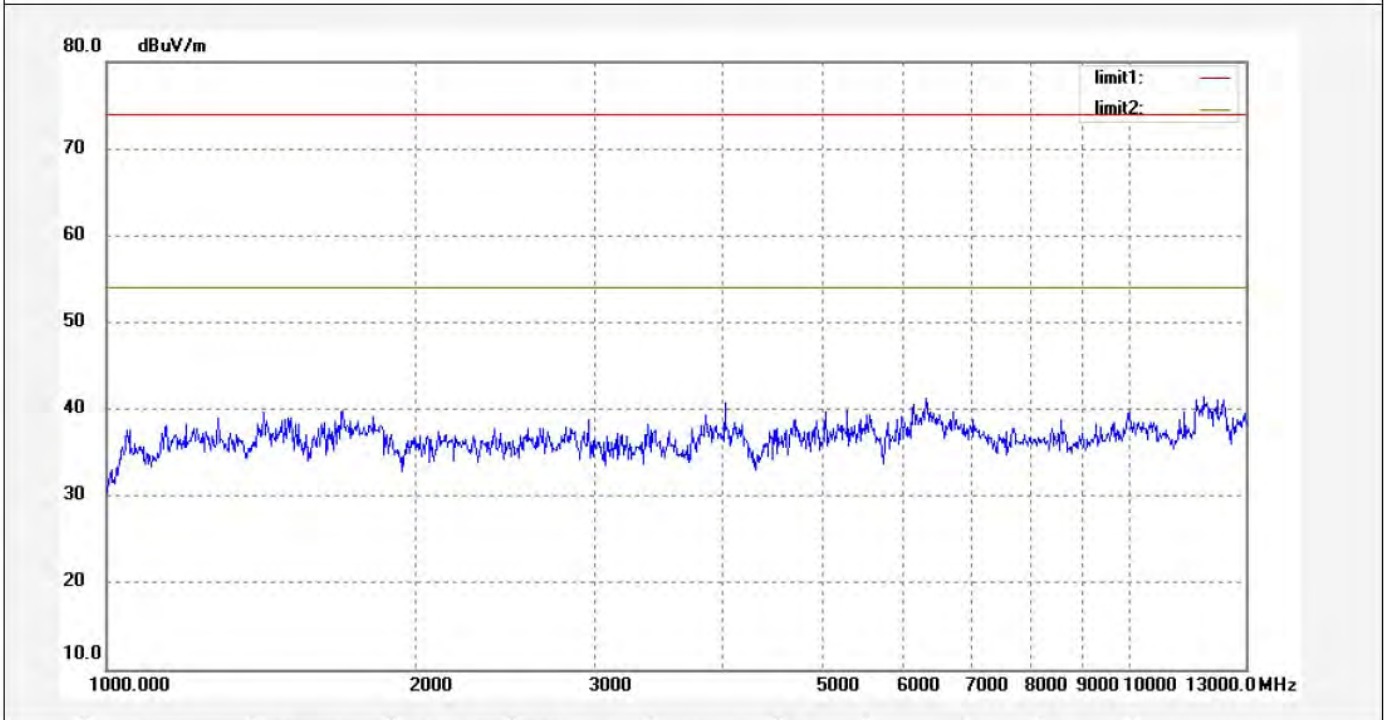
ACCURATE TECHNOLOGY CO., LTD.

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.: Bob #3389	Polarization: Horizontal
Standard: FCC PART 15B (PK)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/09/07
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 14:38:48
EUT: MID	Engineer Signature: Bob
Mode: TRANSFER DATA	Distance: 3m
Model: PC7011	
Manufacturer: Natural Sound	

Note:



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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