

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

MP4
Model No.: ID2825B, Eclipse-2.8V, Trio 2.8V

FCC ID: PWK-ID2825B

Prepared for : HONG KONG NATURAL SOUND ELECTRONICS
LIMITED

Address : FLAT/RM M 4/F CONTINENTAL MANSION 300
KING'S ROAD HONG KONG

Prepared by : ACCURATE TECHNOLOGY CO. LTD

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Report Number : ATE20130299
Date of Test : March 1-5, 2013
Date of Report : March 5, 2013

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Test Report Certification

Applicant : HONG KONG NATURAL SOUND ELECTRONICS LIMITED
Manufacturer : Shenzhen Natural Sound Electronics Co., Ltd.
EUT Description : MP4
(A) MODEL NO.: ID2825B, Eclipse-2.8V, Trio 2.8V
(B) SERIAL NO.: N/A
(C) POWER SUPPLY: DC 3.7V (Li-polymer battery)

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 : March 1-5, 2013

Prepared by : Apple Lv
(Apple Lv, Engineer)

Approved & Authorized Signer : Sean Liu
(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	MP4
Model Number	:	ID2825B, Eclipse-2.8V, Trio 2.8V (Note: These samples are same except for the appearance color is difference. So we prepare the ID2825B for FCC test.)
Power Supply	:	DC 3.7V (Li-polymer battery)
Highest operation frequency of the EUT:	:	96MHz
Applicant	:	HONG KONG NATURAL SOUND ELECTRONICS LIMITED
Address	:	FLAT/RM M 4/F CONTINENTAL MANSION 300 KING'S ROAD HONG KONG
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	:	March 1, 2013
Date of Test	:	March 1-5, 2013

1.2. Accessory and Auxiliary Equipment

1.2.1. PC

Notebook PC : Manufacturer: SONY
M/N: PCG-663P
S/N: 28123170 7202526

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

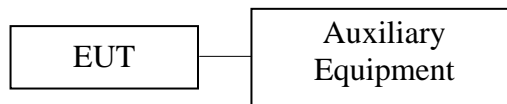
Kind of equipment	Manufacturer	Type	S/N	Calibrated date	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 12, 2013	Jan. 11, 2014
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 12, 2013	Jan. 11, 2014
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 12, 2013	Jan. 11, 2014
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 12, 2013	Jan. 11, 2014
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Feb. 06, 2013	Feb. 05, 2014
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Feb. 06, 2013	Feb. 05, 2014
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Feb. 06, 2013	Feb. 05, 2014
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Feb. 06, 2013	Feb. 05, 2014
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 12, 2013	Jan. 11, 2014
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 12, 2013	Jan. 11, 2014

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

- The modes are used:
- 1) Playing
 - 2) Transfer data
 - 3) Camera playing
 - 4) Charging
 - 5) Recording

3.2.Configuration and peripherals



(EUT: MP4)

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

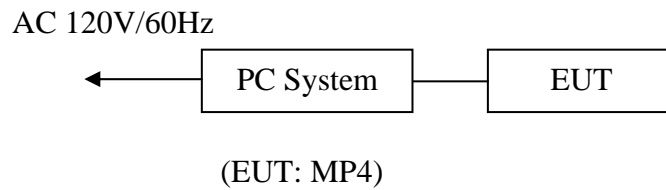
5. CONDUCTED EMISSION FOR FCC PART 15 SECTION

15.107(A)

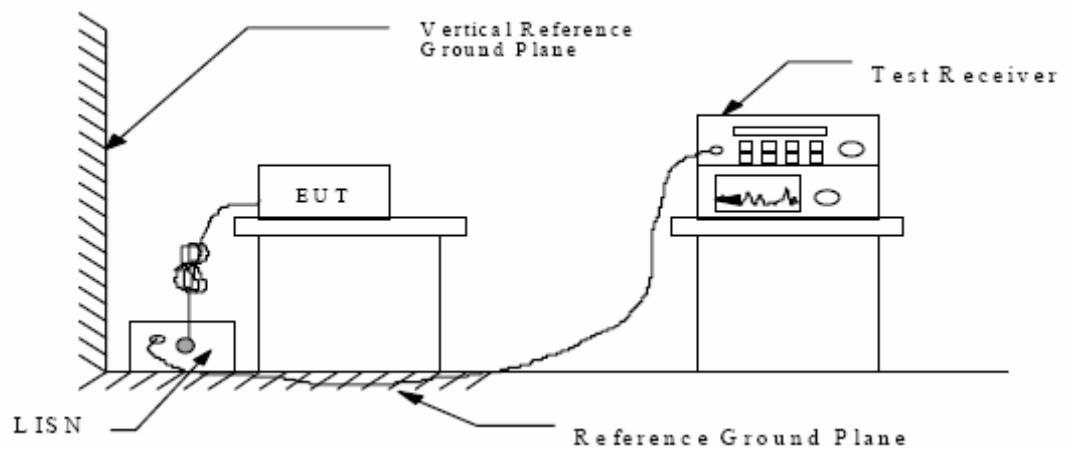
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators

5.1.1.1. For Transfer data and Charging



5.1.2. Shielding Room Test Setup Diagram



(EUT: MP4)

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.MP4 (EUT)

Model Number : ID2825B
 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 (Charging, 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 9kHz.

The frequency range from 150kHz 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>March 1, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MP4</u>	Humidity:	<u>50%</u>
Model No.:	<u>ID2825B</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>Charging</u>	Test Engineer:	<u>PEI</u>

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	40.20	11.0	66	25.8	QP	N	GND
2.843398	29.70	11.6	56	26.3	QP	N	GND
3.030938	29.80	11.6	56	26.2	QP	N	GND
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.184605	39.70	11.2	54	14.6	AV	N	GND
1.606633	29.30	11.7	46	16.7	AV	N	GND
2.532561	30.30	11.6	46	15.7	AV	N	GND
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	43.40	11.0	66	22.6	QP	L1	GND
0.183870	43.80	11.2	64	20.5	QP	L1	GND
1.052309	34.40	11.8	56	21.6	QP	L1	GND
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.186085	42.10	11.2	54	12.1	AV	L1	GND
0.555583	35.00	12.0	46	11.0	AV	L1	GND
0.802141	34.70	11.9	46	11.3	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:	March 1, 2013	Temperature:	25°C
EUT:	MP4	Humidity:	50%
Model No.:	ID2825B	Power Supply:	AC 120V/60Hz
Test Mode:	Transfer data	Test Engineer:	PEI

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	40.20	11.0	66	25.8	QP	N	GND
0.369752	30.60	11.7	59	27.9	QP	N	GND
3.960370	29.70	11.5	56	26.3	QP	N	GND
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.185344	39.70	11.2	54	14.5	AV	N	GND
3.030938	30.00	11.6	46	16.0	AV	N	GND
3.527427	30.00	11.5	46	16.0	AV	N	GND
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	43.20	11.0	66	22.8	QP	L1	GND
0.371231	35.70	11.8	59	22.8	QP	L1	GND
1.300259	34.00	11.8	56	22.0	QP	L1	GND
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.185344	42.50	11.2	54	11.7	AV	L1	GND
0.555583	34.90	12.0	46	11.1	AV	L1	GND
1.052309	34.90	11.8	46	11.1	AV	L1	GND

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

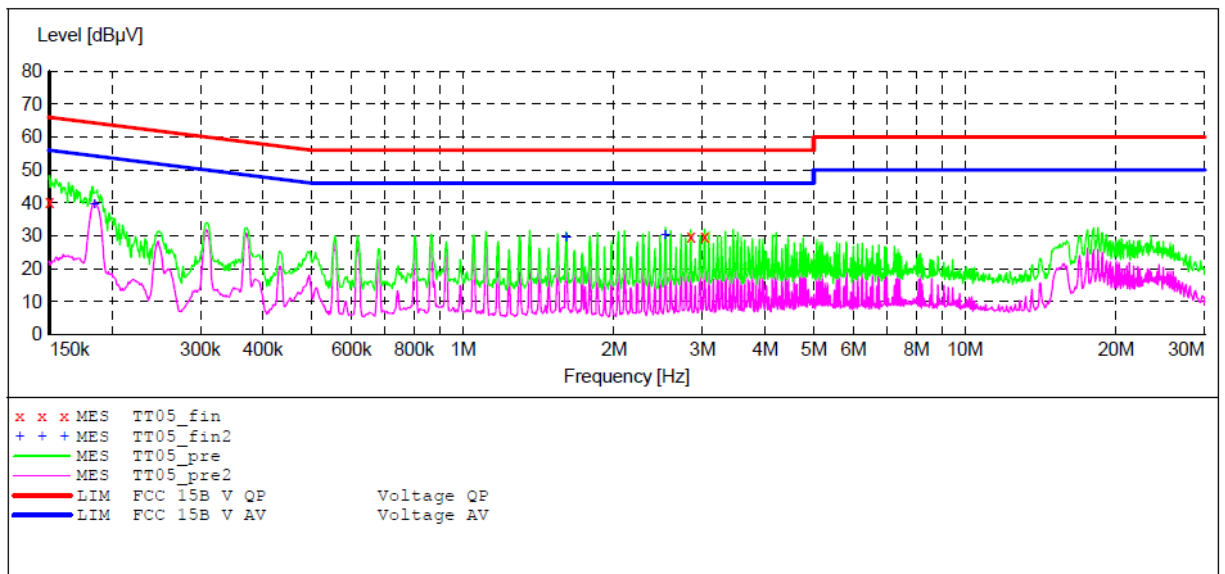
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: MP4 M/N:ID2825B
 Manufacturer: Natural Sound
 Operating Condition: Charging
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20130299
 Start of Test: 03/01/2012 / 3:55:47AM

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: "TT05_fin"

03/01/2013 3:57AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	40.20	11.0	66	25.8	QP	N	GND
2.843398	29.70	11.6	56	26.3	QP	N	GND
3.030938	29.80	11.6	56	26.2	QP	N	GND

MEASUREMENT RESULT: "TT05_fin2"

03/01/2013 3:57AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.184605	39.70	11.2	54	14.6	AV	N	GND
1.606633	29.30	11.7	46	16.7	AV	N	GND
2.532561	30.30	11.6	46	15.7	AV	N	GND

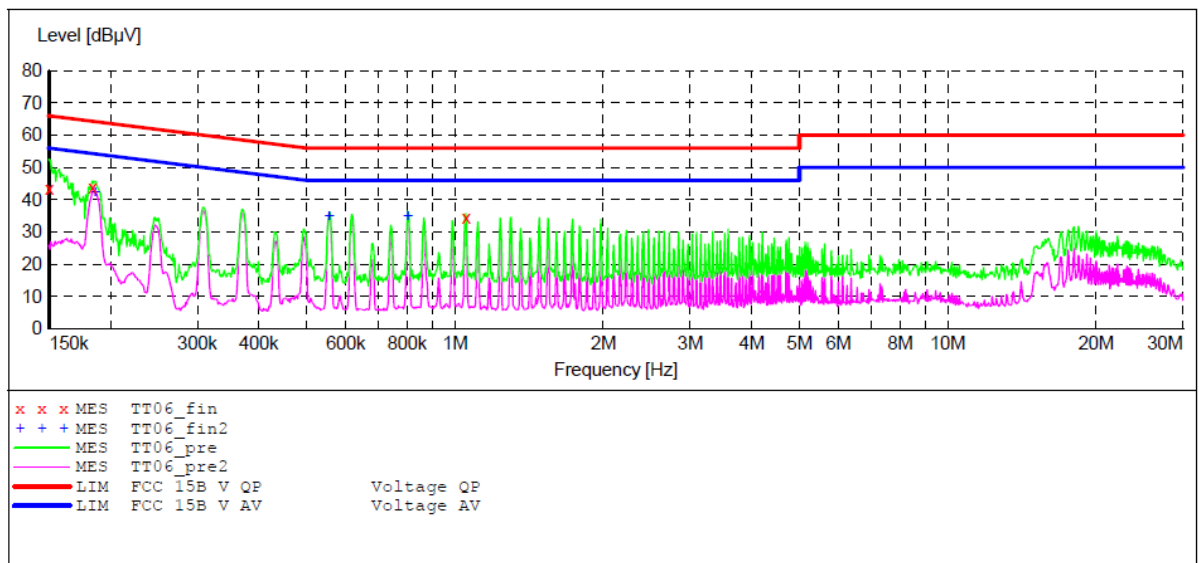
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: MP4 M/N:ID2825B
 Manufacturer: Natural Sound
 Operating Condition: Charging
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20130299
 Start of Test: 03/01/2013 / 3:58:35AM

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: "TT06_fin"

03/01/2013 4:00AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	43.40	11.0	66	22.6	QP	L1	GND
0.183870	43.80	11.2	64	20.5	QP	L1	GND
1.052309	34.40	11.8	56	21.6	QP	L1	GND

MEASUREMENT RESULT: "TT06_fin2"

03/01/2013 4:00AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.186085	42.10	11.2	54	12.1	AV	L1	GND
0.555583	35.00	12.0	46	11.0	AV	L1	GND
0.802141	34.70	11.9	46	11.3	AV	L1	GND

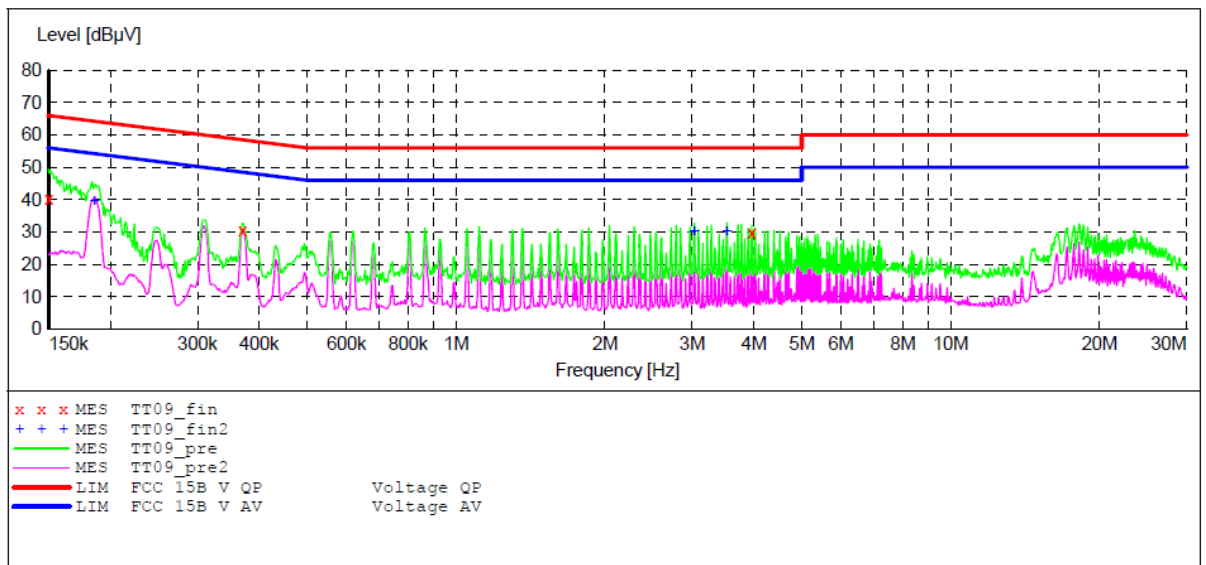
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: MP4 M/N:ID2825B
 Manufacturer: Natural Sound
 Operating Condition: Transfer data
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20130299
 Start of Test: 03/01/2013 / 4:12:21AM

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: "TT09_fin"

03/01/2013 4:14AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	40.20	11.0	66	25.8	QP	N	GND
0.369752	30.60	11.7	59	27.9	QP	N	GND
3.960370	29.70	11.5	56	26.3	QP	N	GND

MEASUREMENT RESULT: "TT09_fin2"

03/01/2013 4:14AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.185344	39.70	11.2	54	14.5	AV	N	GND
3.030938	30.00	11.6	46	16.0	AV	N	GND
3.527427	30.00	11.5	46	16.0	AV	N	GND

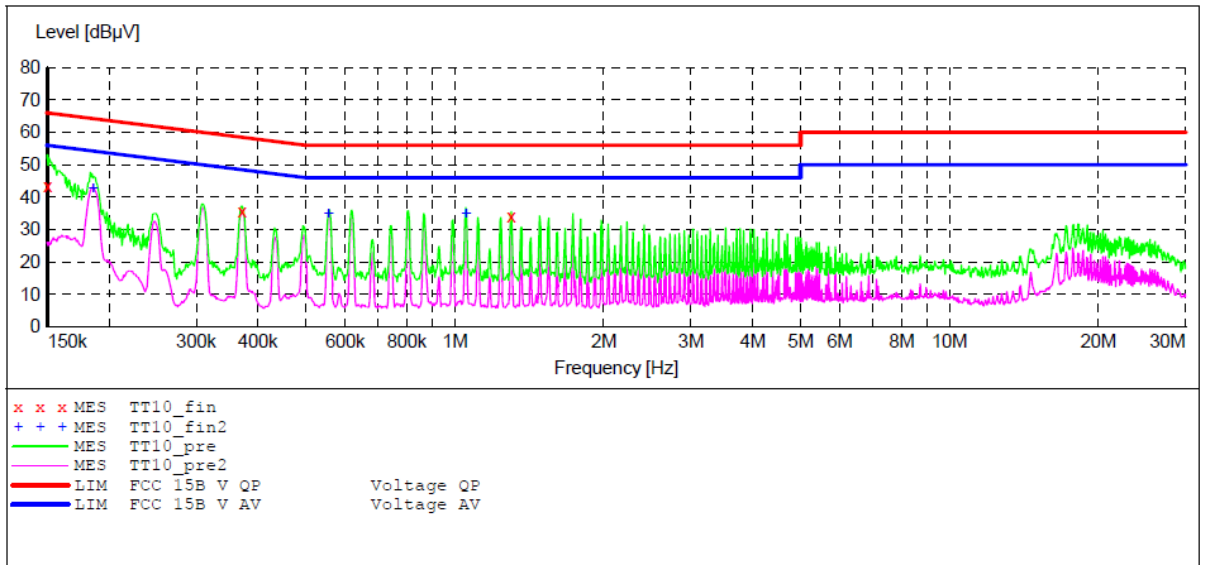
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: MP4 M/N:ID2825B
 Manufacturer: Natural Sound
 Operating Condition: Transfer data
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20130299
 Start of Test: 03/01/2013 / 4:15:38AM

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: "TT10_fin"

03/01/2013 4:18AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	43.20	11.0	66	22.8	QP	L1	GND
0.371231	35.70	11.8	59	22.8	QP	L1	GND
1.300259	34.00	11.8	56	22.0	QP	L1	GND

MEASUREMENT RESULT: "TT10_fin2"

03/01/2013 4:18AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.185344	42.50	11.2	54	11.7	AV	L1	GND
0.555583	34.90	12.0	46	11.1	AV	L1	GND
1.052309	34.90	11.8	46	11.1	AV	L1	GND

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

6.1. Block Diagram of Test Setup

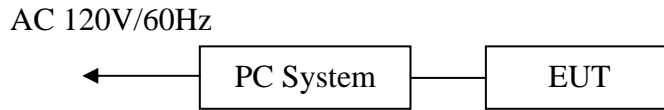
6.1.1. Block diagram of connection between the EUT and simulators

6.1.1.1. For playing & Camera playing & Recording



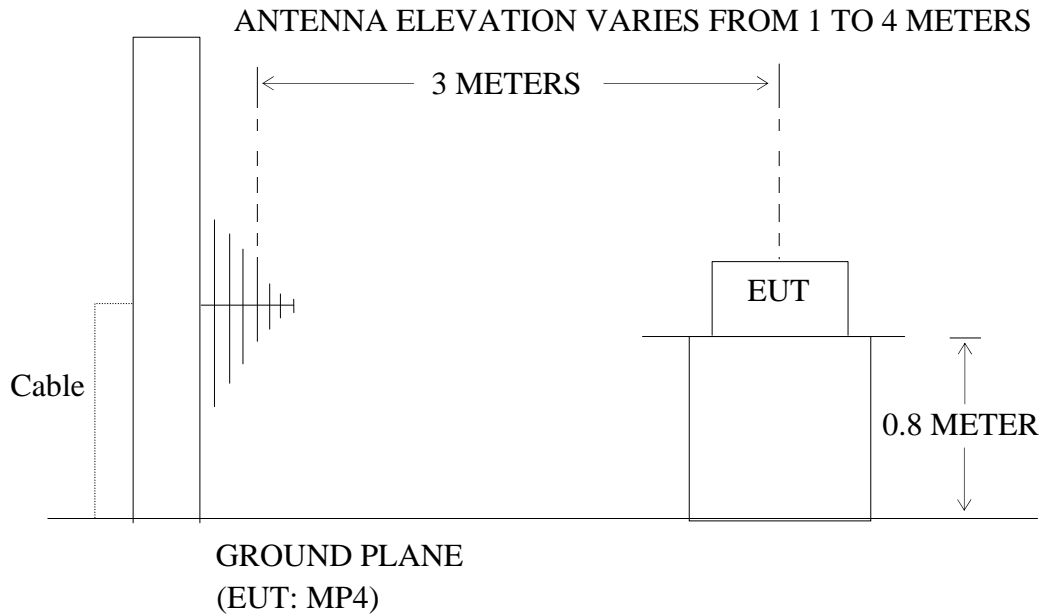
(EUT: MP4)

6.1.1.2. For Transfer data & Charging



(EUT: MP4)

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.MP4 (EUT)

Model Number : ID2825B
 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 (Playing, Transfer data, Camera playing, Charging and Recording) mode measures 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 120kHz in 30-1000MHz

The frequency range from 30MHz to 1000MHz is checked.

The highest frequency of the internal sources of the EUT is less than 108MHz;
The measurement shall only be made up to 1GHz.

6.6.The Emission Measurement Result

PASS.

Date of Test:	<u>March 2, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MP4</u>	Humidity:	<u>50%</u>
Model No.:	<u>ID2825B</u>	Power Supply:	<u>DC 3.7V</u>
Test Mode:	<u>Playing</u>	Test Engineer:	<u>PEI</u>

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	176.8951	51.85	-13.57	38.28	43.50	-5.22	QP
	2	478.1394	44.32	-5.38	38.94	46.00	-7.06	QP
	3	531.2910	43.21	-4.14	39.07	46.00	-6.93	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	166.6383	48.69	-14.21	34.48	43.50	-9.02	QP
	2	176.8951	50.89	-13.57	37.32	43.50	-6.18	QP
	3	531.2910	41.35	-4.14	37.21	46.00	-8.79	QP

Date of Test:	<u>March 2, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MP4</u>	Humidity:	<u>50%</u>
Model No.:	<u>ID2825B</u>	Power Supply:	<u>DC 5V</u>
Test Mode:	<u>Transfer data</u>	Test Engineer:	<u>PEI</u>

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	167.8136	53.52	-14.03	39.49	43.50	-4.01	QP
	2	231.8531	51.02	-11.22	39.80	46.00	-6.20	QP
	3	736.6209	41.24	-1.25	39.99	46.00	-6.01	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	153.1627	52.03	-15.12	36.91	43.50	-6.59	QP
	2	227.0164	49.85	-11.39	38.46	46.00	-7.54	QP
	3	582.1122	43.25	-3.11	40.14	46.00	-5.86	QP

Date of Test:	<u>March 2, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MP4</u>	Humidity:	<u>50%</u>
Model No.:	<u>ID2825B</u>	Power Supply:	<u>DC 3.7V</u>
Test Mode:	<u>Camera playing</u>	Test Engineer:	<u>PEI</u>

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	183.2211	37.54	-12.99	24.55	43.50	-18.95	QP
	2	415.4485	33.58	-6.38	27.20	46.00	-18.80	QP
	3	912.6952	31.10	1.40	32.50	46.00	-13.50	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	164.8911	43.26	-14.46	28.80	43.50	-14.70	QP
	2	415.4485	38.27	-6.38	31.89	46.00	-14.11	QP
	3	578.0358	34.68	-3.14	31.54	46.00	-14.46	QP

Date of Test:	<u>March 2, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MP4</u>	Humidity:	<u>50%</u>
Model No.:	<u>ID2825B</u>	Power Supply:	<u>DC 5V</u>
Test Mode:	<u>Charging</u>	Test Engineer:	<u>PEI</u>

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	164.8909	52.01	-14.46	37.55	43.50	-5.95	QP
	2	279.3104	48.14	-9.87	38.27	46.00	-7.73	QP
	3	736.6209	41.92	-1.25	40.67	46.00	-5.33	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	153.1627	53.01	-15.12	37.89	43.50	-5.61	QP
	2	200.7470	50.89	-12.42	38.47	43.50	-5.03	QP
	3	444.1299	45.89	-5.86	40.03	46.00	-5.97	QP

Date of Test:	<u>March 2, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MP4</u>	Humidity:	<u>50%</u>
Model No.:	<u>ID2825B</u>	Power Supply:	<u>DC 3.7V</u>
Test Mode:	<u>Recording</u>	Test Engineer:	<u>PEI</u>

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	213.8534	39.55	-11.95	27.60	43.50	-15.90	QP
	2	280.2936	39.74	-9.84	29.90	46.00	-16.10	QP
	3	296.5022	41.55	-9.34	32.21	46.00	-13.79	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	164.8910	44.23	-14.46	29.77	43.50	-13.73	QP
	2	241.8377	34.78	-10.84	23.94	46.00	-22.06	QP
	3	558.0788	37.06	-3.47	33.59	46.00	-12.41	QP

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.



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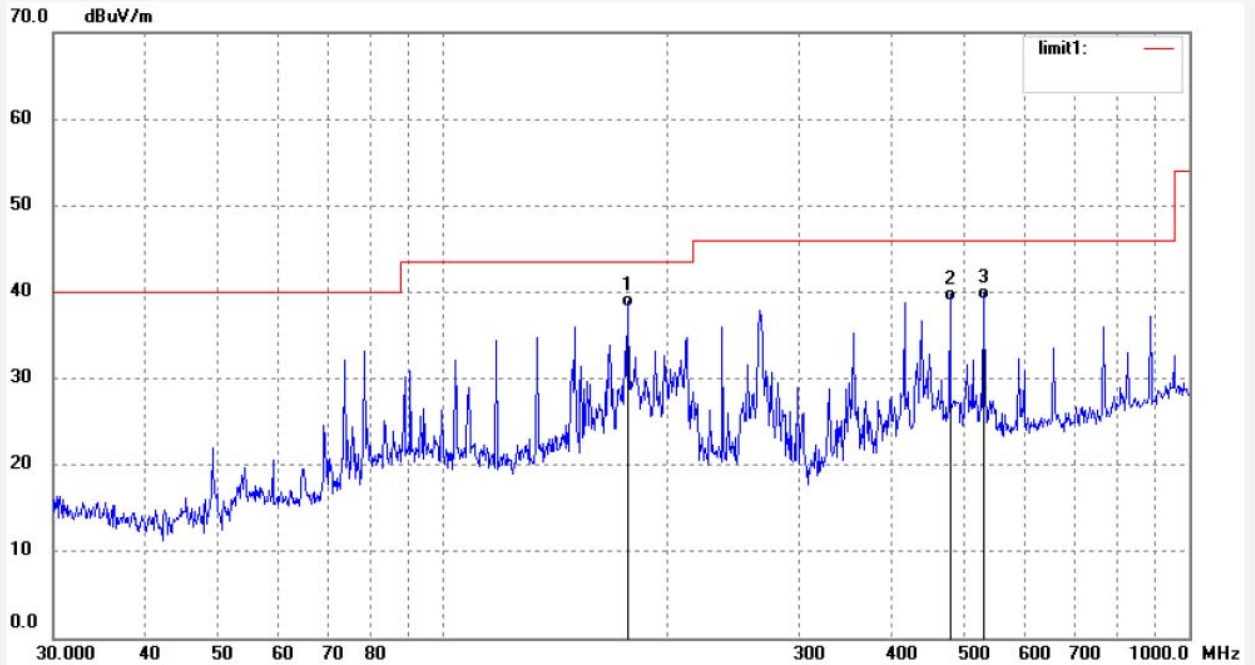
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #963
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: MP4
Mode: Playing
Model: ID2825B
Manufacturer: Natural Sound

Polarization: Horizontal
Power Source: DC 3.7V
Date: 13/03/02/
Time: 9/42/03
Engineer Signature:
Distance: 3m

Note: Report No:ATE20130299



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	176.8951	51.85	-13.57	38.28	43.50	-5.22	QP			
2	478.1394	44.32	-5.38	38.94	46.00	-7.06	QP			
3	531.2910	43.21	-4.14	39.07	46.00	-6.93	QP			



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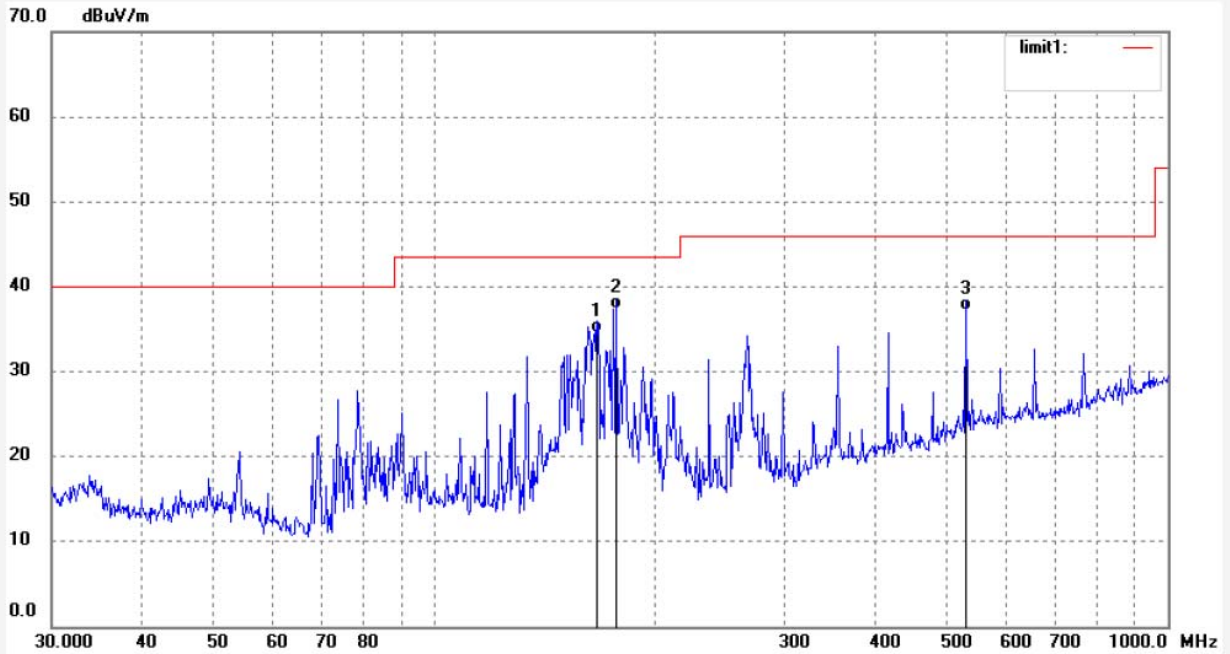
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #962
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: MP4
Mode: Playing
Model: ID2825B
Manufacturer: Natural Sound

Polarization: Vertical
Power Source: DC 3.7V
Date: 13/03/02/
Time: 9/40/45
Engineer Signature:
Distance: 3m

Note: Report No:ATE20130299



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	166.6383	48.69	-14.21	34.48	43.50	-9.02	QP			
2	176.8951	50.89	-13.57	37.32	43.50	-6.18	QP			
3	531.2910	41.35	-4.14	37.21	46.00	-8.79	QP			



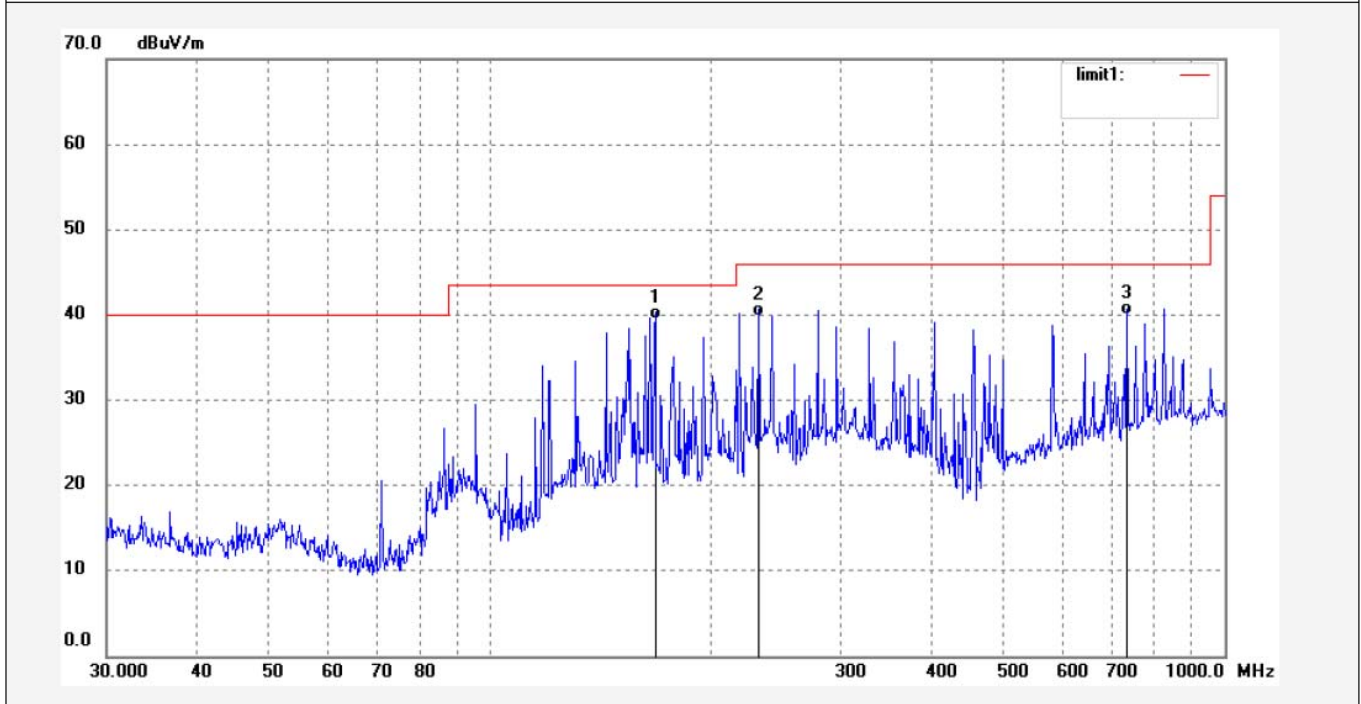
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #956	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/29/16
EUT: MP4	Engineer Signature:
Mode: Transfer data	Distance: 3m
Model: ID2825B	
Manufacturer: Natural Sound	

Note: Report No:ATE20130299



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	167.8136	53.52	-14.03	39.49	43.50	-4.01	QP			
2	231.8531	51.02	-11.22	39.80	46.00	-6.20	QP			
3	736.6209	41.24	-1.25	39.99	46.00	-6.01	QP			



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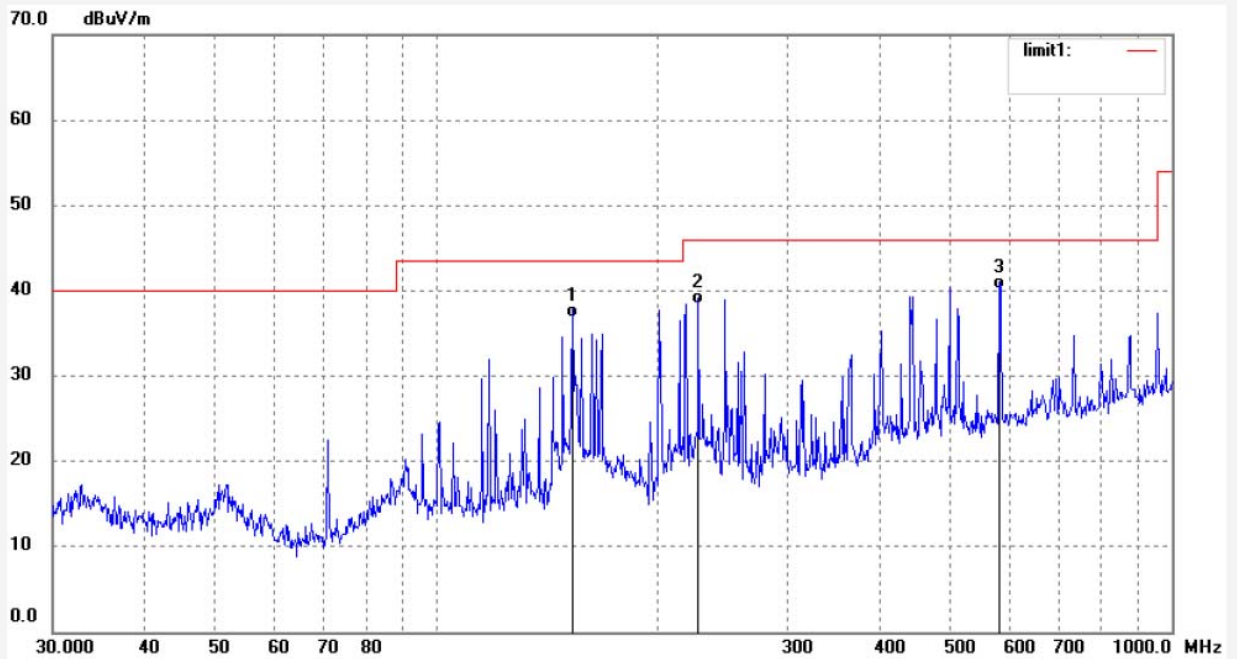
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #957
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: MP4
Mode: Transfer data
Model: ID2825B
Manufacturer: Natural Sound

Polarization: Vertical
Power Source: USB 5V
Date: 13/03/02/
Time: 9/30/08
Engineer Signature:
Distance: 3m

Note: Report No:ATE20130299



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	153.1627	52.03	-15.12	36.91	43.50	-6.59	QP			
2	227.0164	49.85	-11.39	38.46	46.00	-7.54	QP			
3	582.1122	43.25	-3.11	40.14	46.00	-5.86	QP			



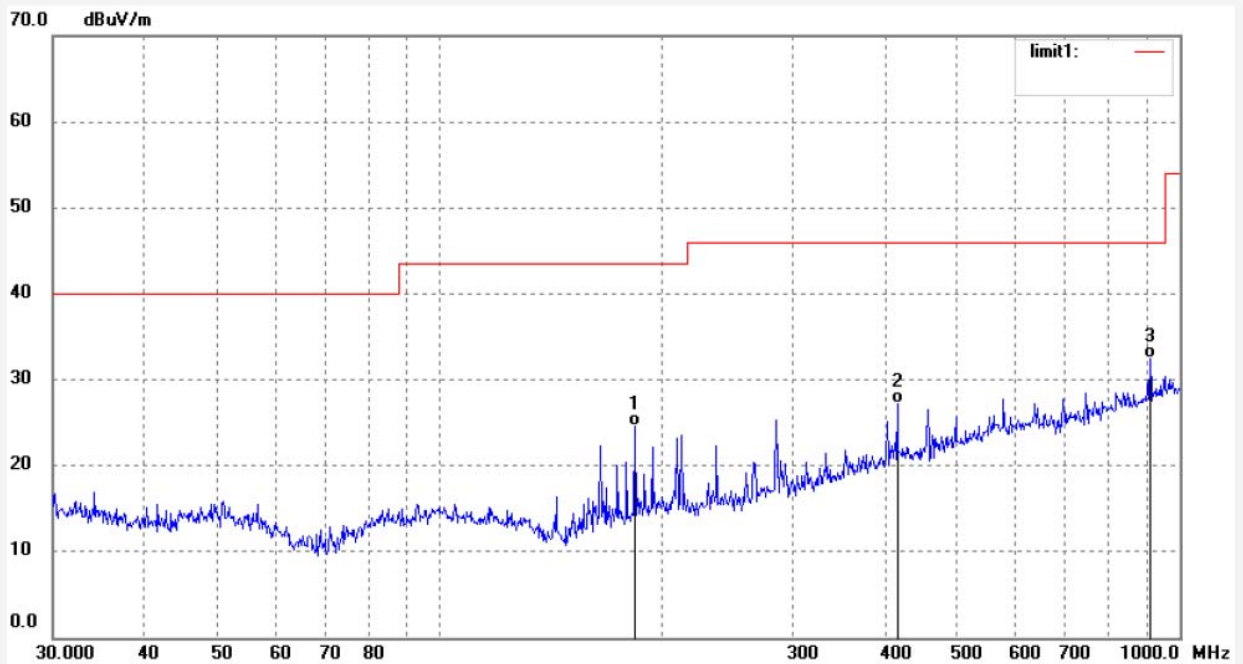
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #959	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 13/03/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/35/17
EUT: MP4	Engineer Signature:
Mode: Camera	Distance: 3m
Model: ID2825B	
Manufacturer: Natural Sound	

Note: Report No:ATE20130299



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	183.2211	37.54	-12.99	24.55	43.50	-18.95	QP			
2	415.4485	33.58	-6.38	27.20	46.00	-18.80	QP			
3	912.6952	31.10	1.40	32.50	46.00	-13.50	QP			



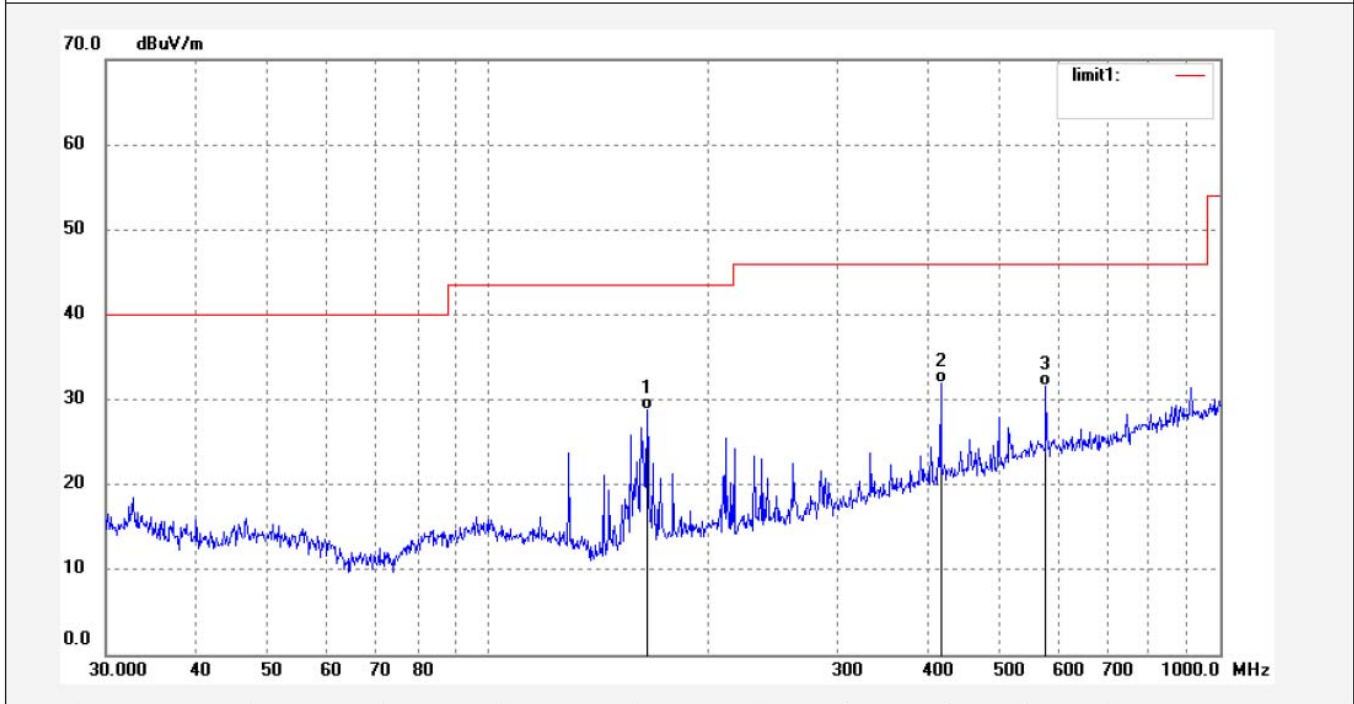
ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #958	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 13/03/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/33/48
EUT: MP4	Engineer Signature:
Mode: Camera	Distance: 3m
Model: ID2825B	
Manufacturer: Natural Sound	

Note: Report No:ATE20130299



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	164.8911	43.26	-14.46	28.80	43.50	-14.70	QP			
2	415.4485	38.27	-6.38	31.89	46.00	-14.11	QP			
3	578.0358	34.68	-3.14	31.54	46.00	-14.46	QP			



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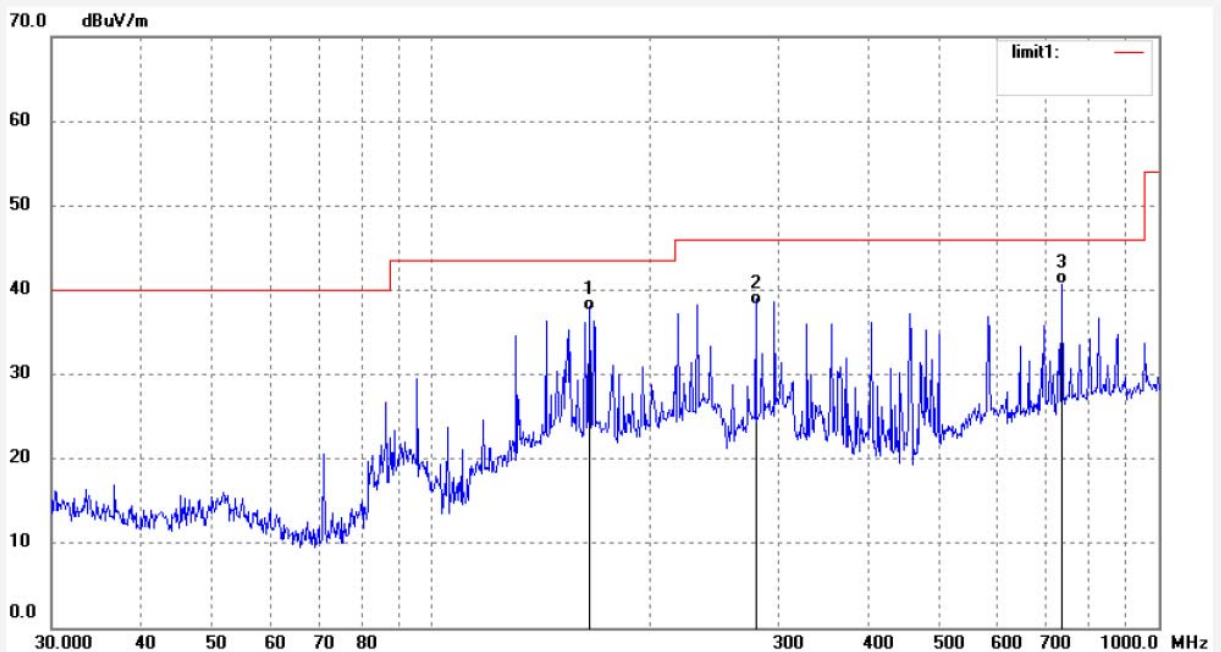
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #964
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: MP4
Mode: Charging
Model: ID2825B
Manufacturer: Natural Sound

Polarization: Horizontal
Power Source: USB 5V
Date: 13/03/02/
Time: 10/31/16
Engineer Signature:
Distance: 3m

Note: Report No:ATE20130299



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	164.8909	52.01	-14.46	37.55	43.50	-5.95	QP			
2	279.3104	48.14	-9.87	38.27	46.00	-7.73	QP			
3	736.6209	41.92	-1.25	40.67	46.00	-5.33	QP			



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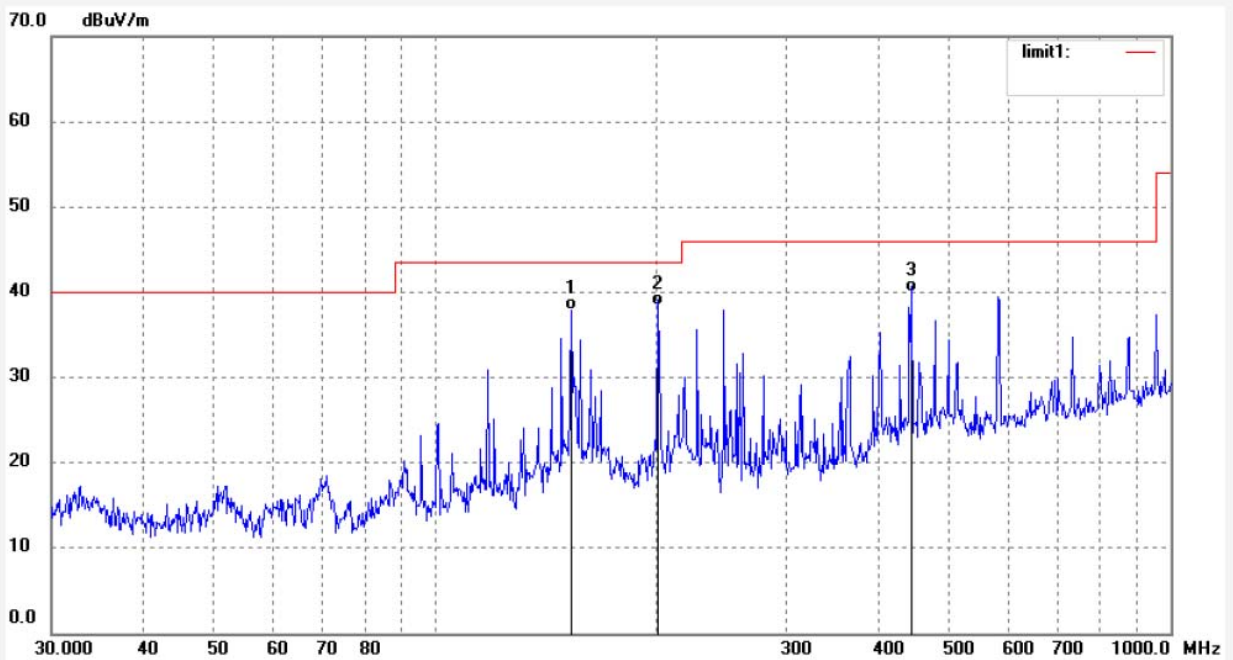
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #965
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: MP4
Mode: Charging
Model: ID2825B
Manufacturer: Natural Sound

Polarization: Vertical
Power Source: USB 5V
Date: 13/03/02/
Time: 10/33/08
Engineer Signature:
Distance: 3m

Note: Report No:ATE20130299



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	153.1627	53.01	-15.12	37.89	43.50	-5.61	QP			
2	200.7470	50.89	-12.42	38.47	43.50	-5.03	QP			
3	444.1299	45.89	-5.86	40.03	46.00	-5.97	QP			



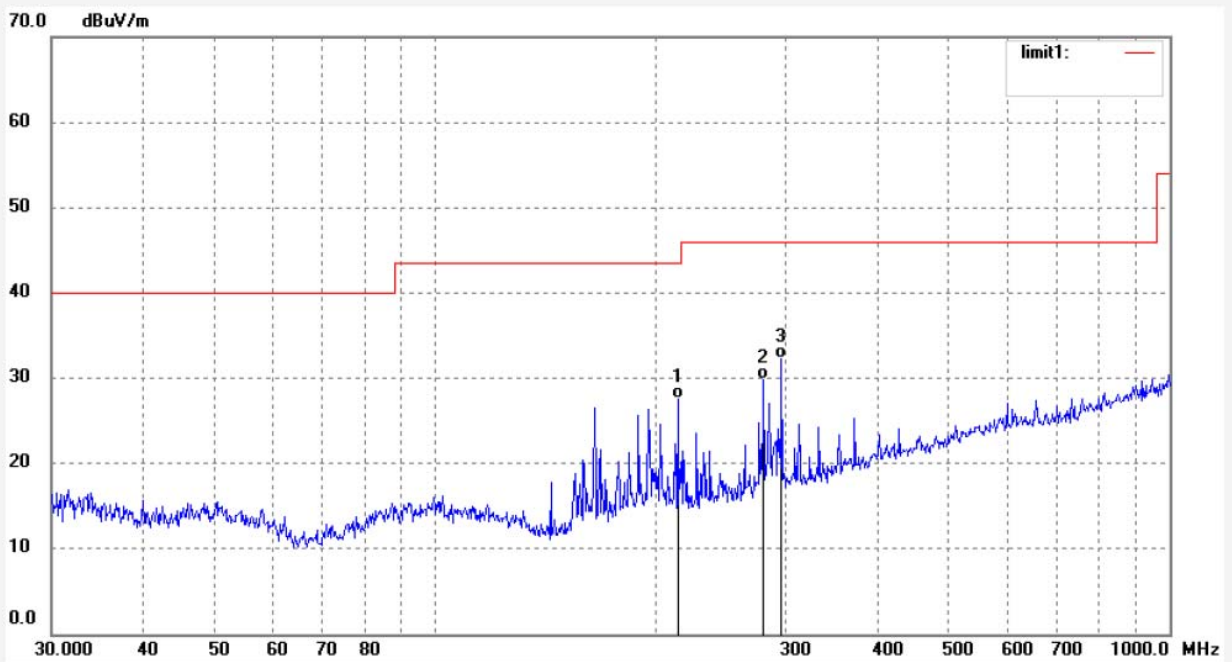
ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #960 Standard: FCC Class B 3M Radiated Test item: Radiation Test Temp.(C)/Hum.(%) 26 C / 55 % EUT: MP4 Mode: Recording Model: ID2825B Manufacturer: Natural Sound	Polarization: Horizontal Power Source: DC 3.7V Date: 13/03/02/ Time: 9/37/29 Engineer Signature: Distance: 3m
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Note: Report No:ATE20130299



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	213.8534	39.55	-11.95	27.60	43.50	-15.90	QP			
2	280.2936	39.74	-9.84	29.90	46.00	-16.10	QP			
3	296.5022	41.55	-9.34	32.21	46.00	-13.79	QP			



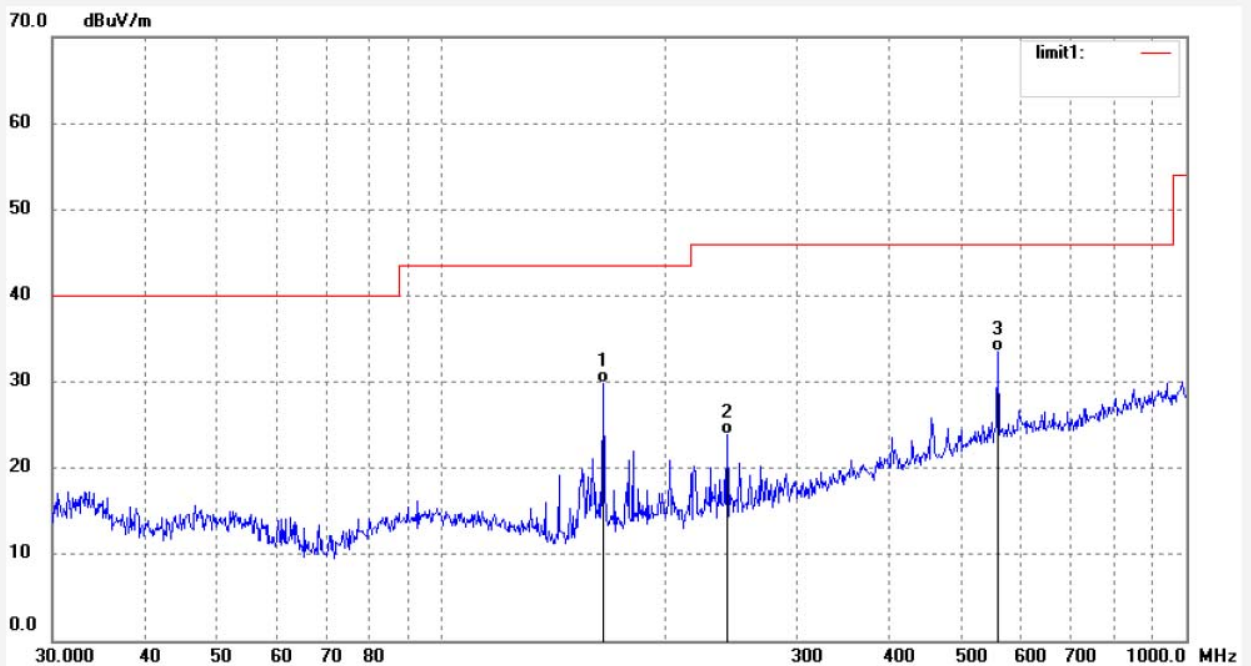
ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #961 Standard: FCC Class B 3M Radiated Test item: Radiation Test Temp.(C)/Hum.(%) 26 C / 55 % EUT: MP4 Mode: Recording Model: ID2825B Manufacturer: Natural Sound	Polarization: Vertical Power Source: DC 3.7V Date: 13/03/02/ Time: 9/38/56 Engineer Signature: Distance: 3m
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Note: Report No:ATE20130299



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	164.8910	44.23	-14.46	29.77	43.50	-13.73	QP			
2	241.8377	34.78	-10.84	23.94	46.00	-22.06	QP			
3	558.0788	37.06	-3.47	33.59	46.00	-12.41	QP			