

TECHNICAL CONSULTING



卓時檢測  
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No: FCC 1104144-02

File reference No: 2011-06-28

Applicant: HONGFUTAI E-TECH(SHENZHEN)CO.,LIMITED

Product: E book

Brand Name: HOTT

Model No: EB1001 ; EBA70K

Test Standards: FCC Part 15 Subpart B: 2008

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of electromagnetic compatibility

Approved By

Terry Tong

Manager

Dated: June 28, 2011

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD**

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. Chegongmiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996



## Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

### **FCC-Registration No.: 899988**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

### **IC- Registration No.: IC5205A-01**

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

### **VCCI- Registration No.: R-3015 and C-3332**

The EMC Laboratory has been registered and fully described in a report filed with the (VCCI) Voluntary Control Council for Interference. The acceptance letter from the VCCI is maintained in our files. Registration IC No.: R-3015 and C-3332



Test Report Conclusion

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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD  
Address: East 5/Block 4, Anhua Industrial Zone, No.8,Tairan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA.  
Telephone: (755) 83448688  
Fax: (755) 83442996

### 1.2 Applicant Details

Applicant: HONGFUTAI E-TECH(SHENZHEN)CO.,LIMITED  
Address: 1Block6, Zone3, XinXing Industrial Park FuHai, Avenue FuYong Town, BaoAn District, ShenZhen, 518103, China  
Telephone: 86-755-83123812  
Fax: 86-755-83122052

### 1.3 Description of EUT

Product: E book  
Manufacturer: HONGFUTAI E-TECH(SHENZHEN)CO.,LIMITED  
Brand Name: HOTT  
Model Number: EB1001  
Additional Number: Model EBA70K  
Rating: Model: SFP0501500P Input: 100-240VAC~0.8A 60/50Hz Output: DC 5V-1.5A  
Remark: Just the model names and appearance colour are different.

### 1.4 Submitted Sample: 1 Sample

### 1.5 Test Duration

2011-04-18 to 2011-06-28

### 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB  
Radiated Emissions Uncertainty =4.7dB

### 1.7 Test Engineer

The sample tested by

Print Name: Terry Tang

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## 2.0 List of Measurement Equipment

### 2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESCS30	100139	RS	2011.4.26	1Year
PULSE LIMITER	ESH3-Z2	100281	RS	2011.4.26	1Year
LISN	LS16C	10010947251	AFJ	2011.4.26	1Year
LISN (Three Phase)	NSLK 8126	8126453	Schwarebeck	2011.4.26	1Year

### 2.2 Radiated electromagnetic disturbance test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESVD	100008	RS	2011.4.26	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer	8595E	3441A00893	HP	2011.4.26	1Year
Amplifier	8447D	2727A05017	HP	2011.4.26	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2011.4.26	1Year
Horn Antenna	BBHA 9120D	9120D-631	Schwarebeck	2011.4.26	1Year

### 2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
U-disk	U208	--	Netac	--	FCC DOC
Earphone	--	--	--	Data cable of 1.0m length	--
SD Card	--	--	Kingston	--	--
PC	R400	--	IBM	--	--
Keyboard		--	DELL	Data cable of 1.0m length	FCC DOC
Mouse	--	--	DELL	Data cable of 1.0m length	FCC DOC

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### 3.0 Technical Details

#### 3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

#### 3.2 Test Standards

**FCC Part 15 Subpart B: 2010**

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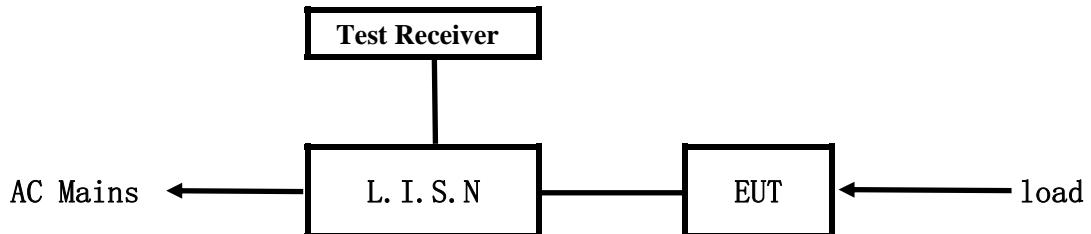
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#### 4.0 Conducted Power line Test

##### 4.1 Schematics of the test



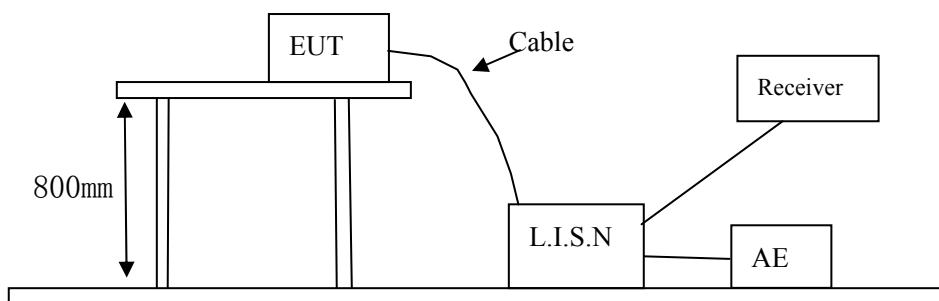
EUT: Equipment Under Test

##### 4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2009. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 -2009. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



##### 4.3 Power line conducted Emission Limit

Frequency(MHz)	Class A Limits dB(μV)		Class B Limits dB(μV)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*
0.50 ~ 5.00	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

Notes: 1. \*decreasing linearly with logarithm of frequency.  
2. The tighter limit shall apply at the transition frequencies

##### 4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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**A: Conducted Emission on Live Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

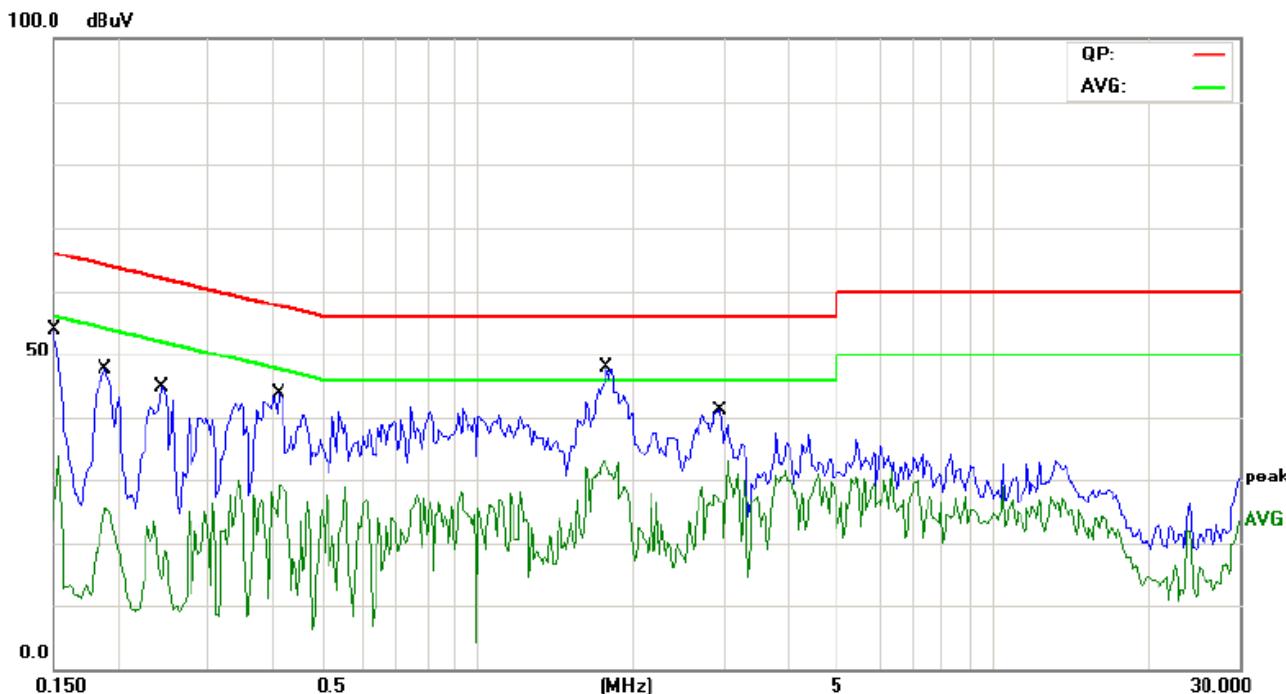
Temperature: 26°C      Humidity: 65%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Reading SD Card, Running EMC Test Program and Ping Wireless Network, Full Load**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dB $\mu$ V)		Limit(dB $\mu$ V)	
		Quasi-peak	Average	Quasi-peak	Average
0.1500	Live	50.53	29.62	65.99	55.99
0.1891	Live	44.77	25.68	64.07	54.07
0.2437	Live	38.15	19.22	61.97	51.97
0.4117	Live	36.67	21.58	57.61	47.61
1.7750	Live	42.47	28.47	56.00	46.00
2.9469	Live	34.37	19.92	56.00	46.00

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**B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

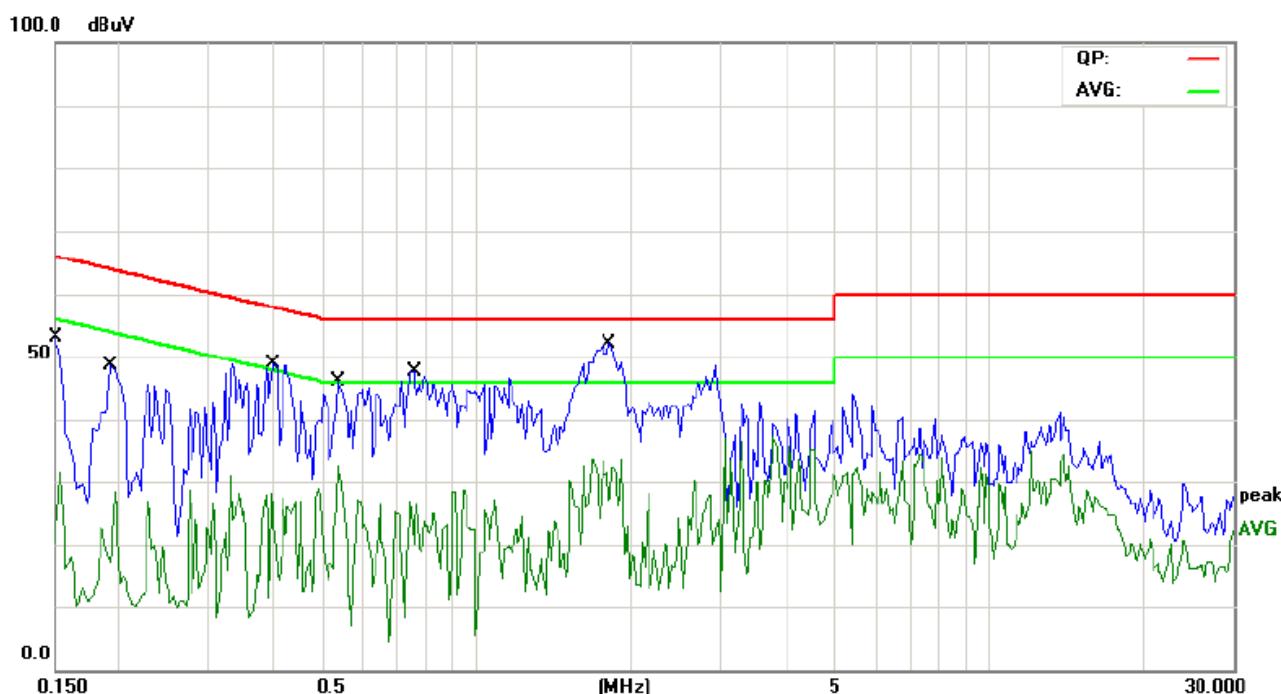
Temperature: 26°C      Humidity: 65%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Reading SD Card , Running EMC Test Program and Ping Wireless Network, Full Load**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dB $\mu$ V)		Limit(dB $\mu$ V)	
		Quasi-peak	Average	Quasi-peak	Average
0.1500	Neutral	49.51	28.63	65.99	55.99
0.1930	Neutral	42.59	24.31	63.90	53.90
0.4000	Neutral	43.54	24.87	57.85	47.85
0.5367	Neutral	39.87	19.69	56.00	46.00
0.7516	Neutral	40.31	22.59	56.00	46.00
1.8180	Neutral	45.21	26.14	56.00	46.00

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**C: Conducted Emission on Live Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

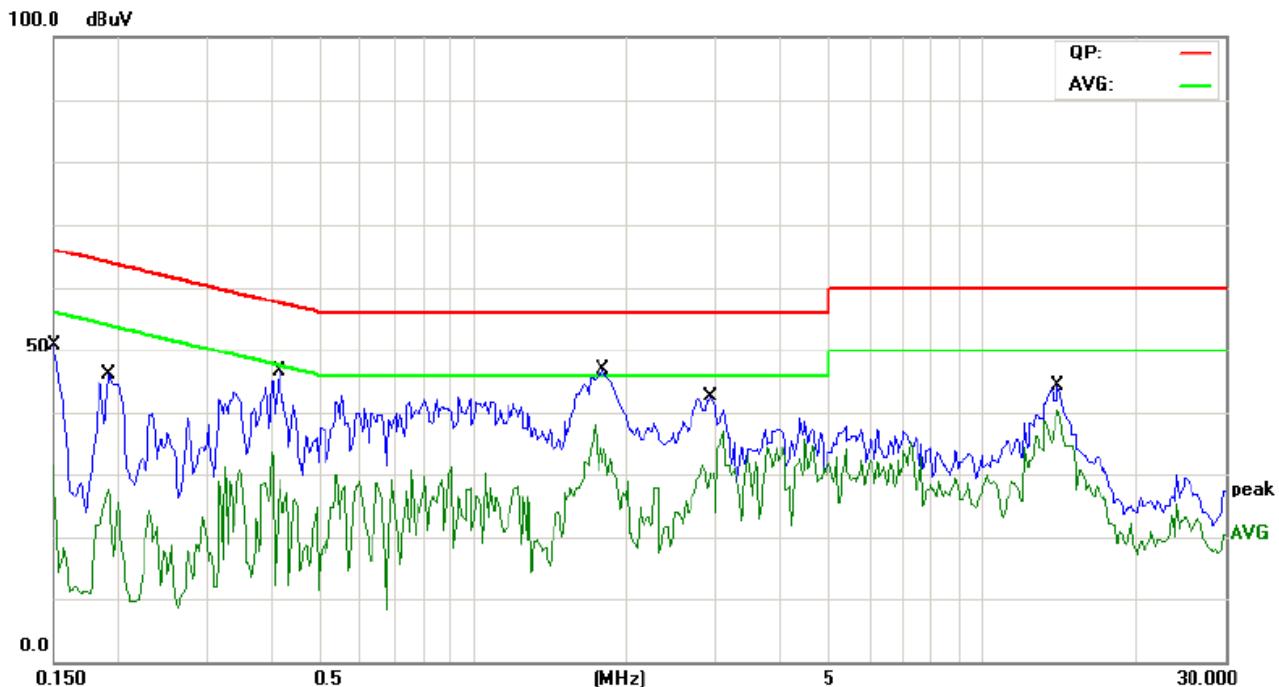
Temperature: 26°C      Humidity: 65%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Data transmission (Note: EUT as a hard disk)**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dB $\mu$ V)		Limit(dB $\mu$ V)	
		Quasi-peak	Average	Quasi-peak	Average
0.1500	Live	47.53	28.08	65.99	55.99
0.1930	Live	41.17	25.55	63.90	53.90
0.4156	Live	40.43	26.96	57.53	47.53
1.7945	Live	43.41	29.95	56.00	46.00
2.9234	Live	38.11	25.61	56.00	46.00
14.1016	Live	39.11	25.97	56.00	46.00

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**D: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

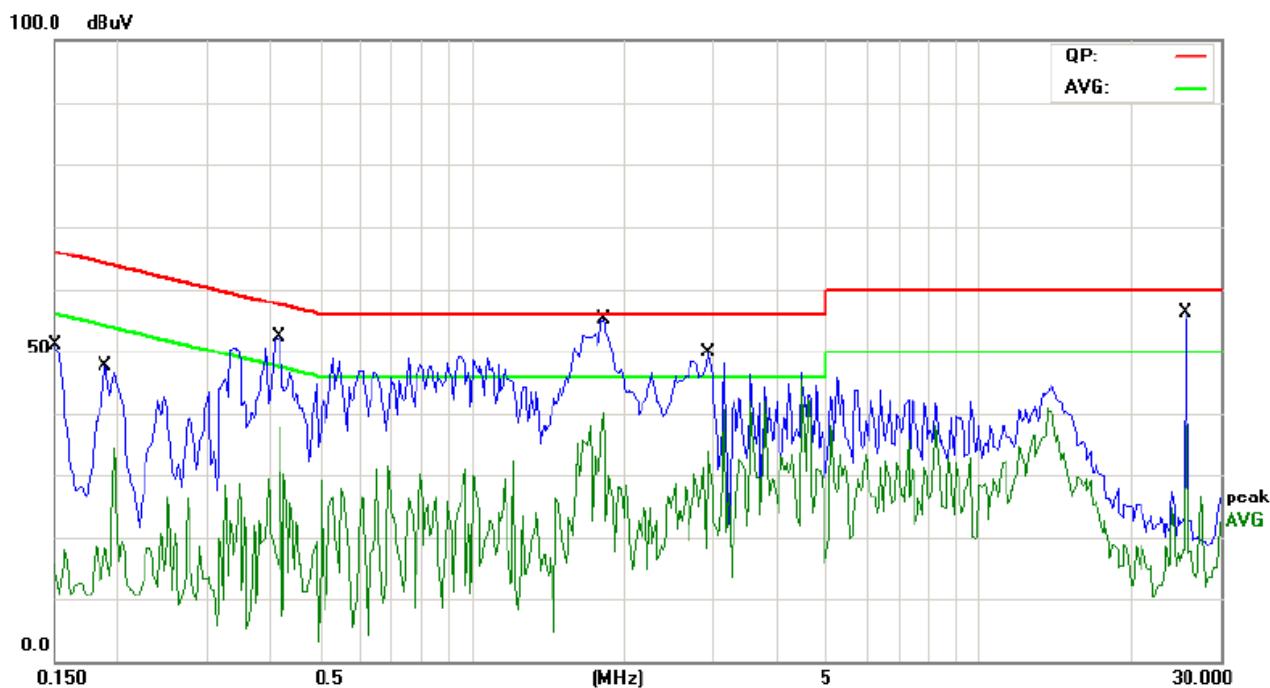
Temperature: 26°C      Humidity: 65%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Data transmission (Note: EUT as a hard disk)**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dB $\mu$ V)		Limit(dB $\mu$ V)	
		Quasi-peak	Average	Quasi-peak	Average
0.1500	Neutral	47.83	26.47	65.99	55.99
0.1891	Neutral	42.45	23.92	64.07	54.07
0.4156	Neutral	46.81	24.34	57.53	47.53
1.8219	Neutral	48.92	26.70	56.00	46.00
2.9234	Neutral	43.76	22.64	56.00	46.00
25.6836	Neutral	56.05	45.23	60.00	50.00

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## 5.0 Radiated Disturbance Test

### 5.1 Schematics of the test

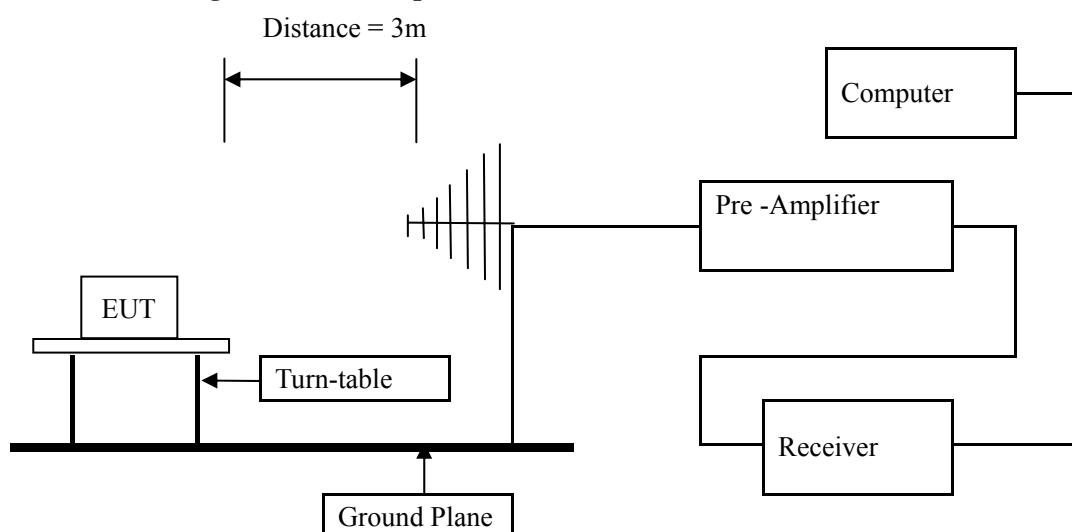


### 5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2003, The frequency spectrum from 30MHz to 10GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak 0values with a resolution bandwidth of 120KHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

Test Voltage: 120V~, 60Hz

#### Block diagram of Test setup



### 5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

### 5.4 Test result

The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

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### A: Radiated Disturbance (30MHz----1000MHz)

#### EUT Operating Environment

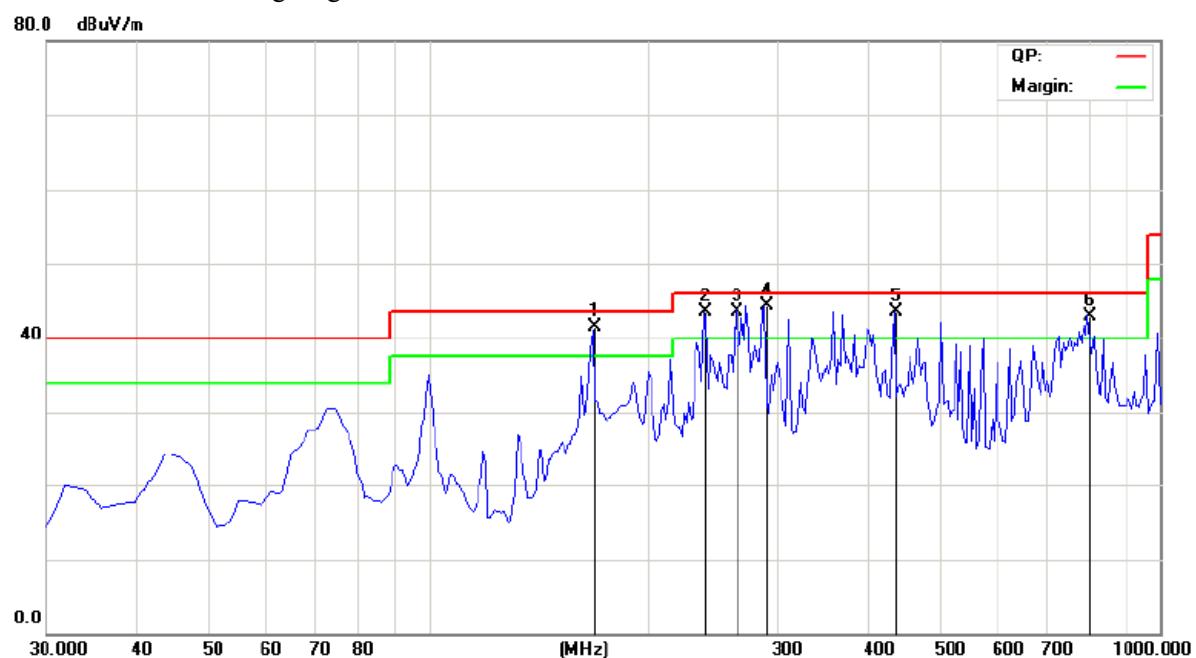
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Reading SD Card, Running EMC Test Program and Ping Wireless Network, Full Load**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
167.9905	41.56	H	43.50
239.9398	43.44	H	46.00
263.9850	43.50	H	46.00
288.5371	44.21	H	46.00
436.2724	43.48	H	46.00
799.7795	43.00	H	46.00

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## B: Radiated Disturbance (30MHz----1000MHz)

### EUT Operating Environment

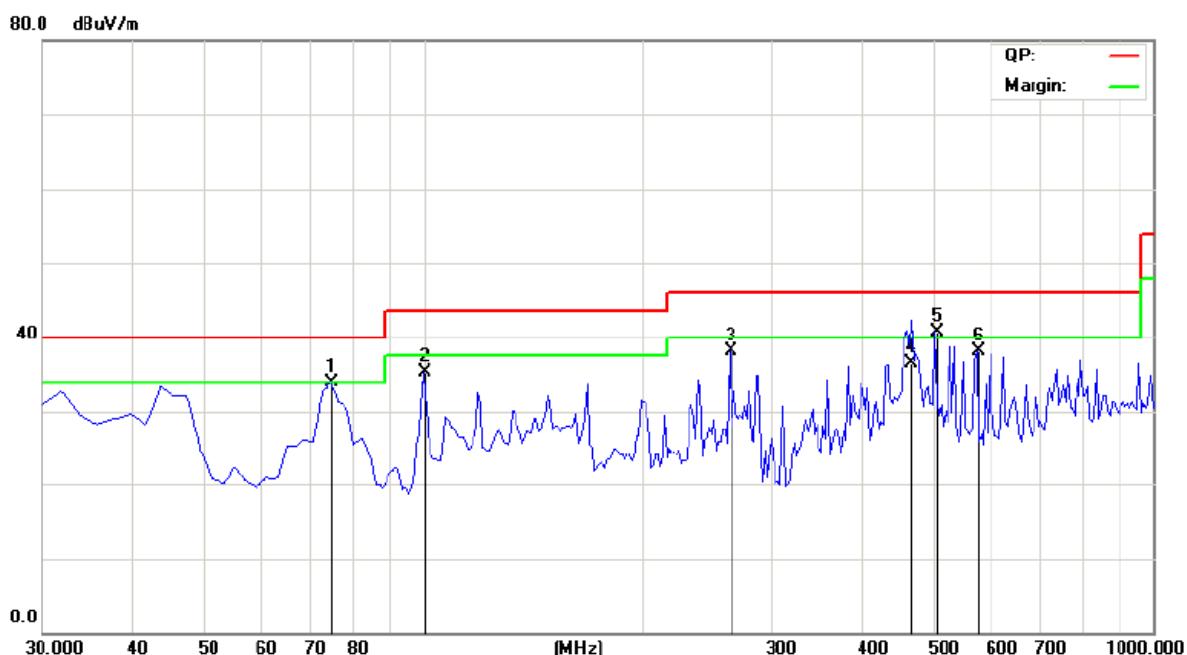
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Reading SD Card, Running EMC Test Program and Ping Wireless Network, Full Load**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
74.7094	33.88	V	40.00
99.9800	35.26	V	43.50
263.2664	38.13	V	46.00
466.8714	36.41	V	46.00
504.3086	40.72	V	46.00
576.2324	38.10	V	46.00

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**C: Radiated Disturbance (1000MHz----10000MHz)**

**EUT Operating Environment**

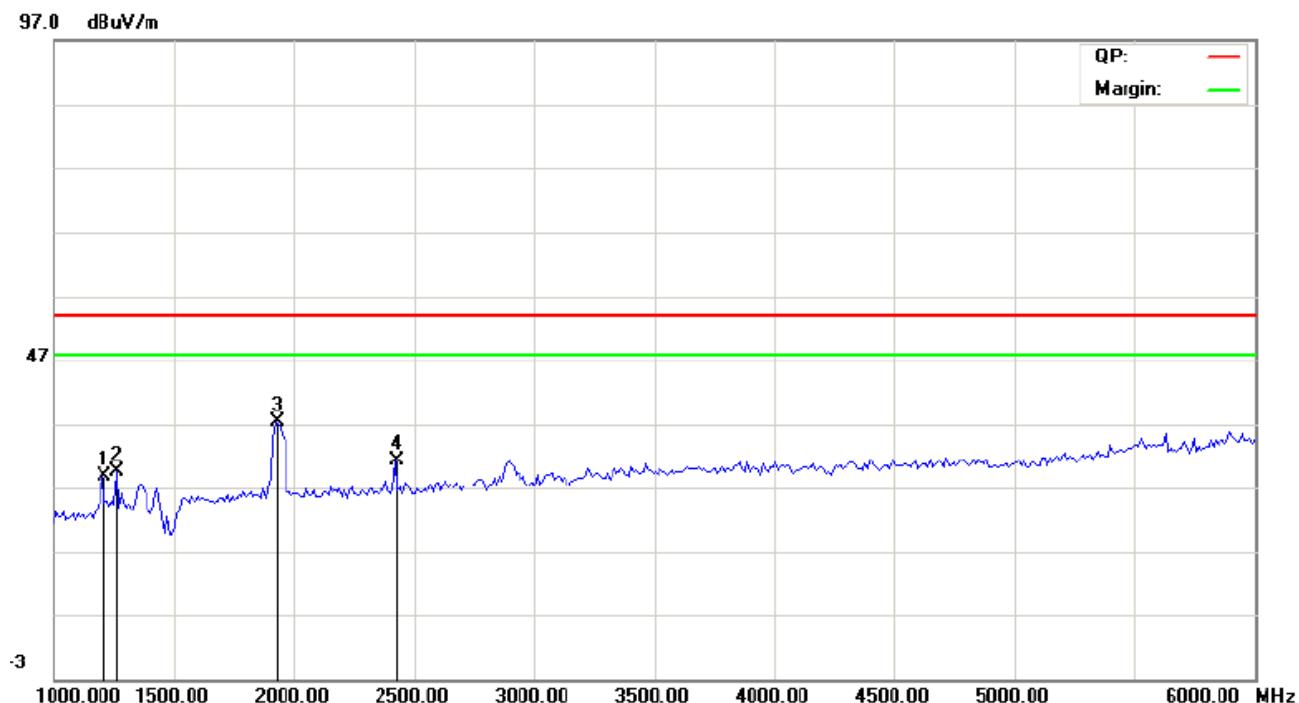
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Reading SD Card, Running EMC Test Program, Full Load**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
1200.401	28.89 (PK)	H	54(AV)
1260.521	29.61(PK)	H	54(AV)
1921.844	37.32(PK)	H	54(AV)
2422.846	31.30(PK)	H	54(AV)

Note: Due to the PK final radiated level less than the AV limit, so necessary take down the AV final radiated level

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**D: Radiated Disturbance (1000MHz----10000MHz)**

**EUT Operating Environment**

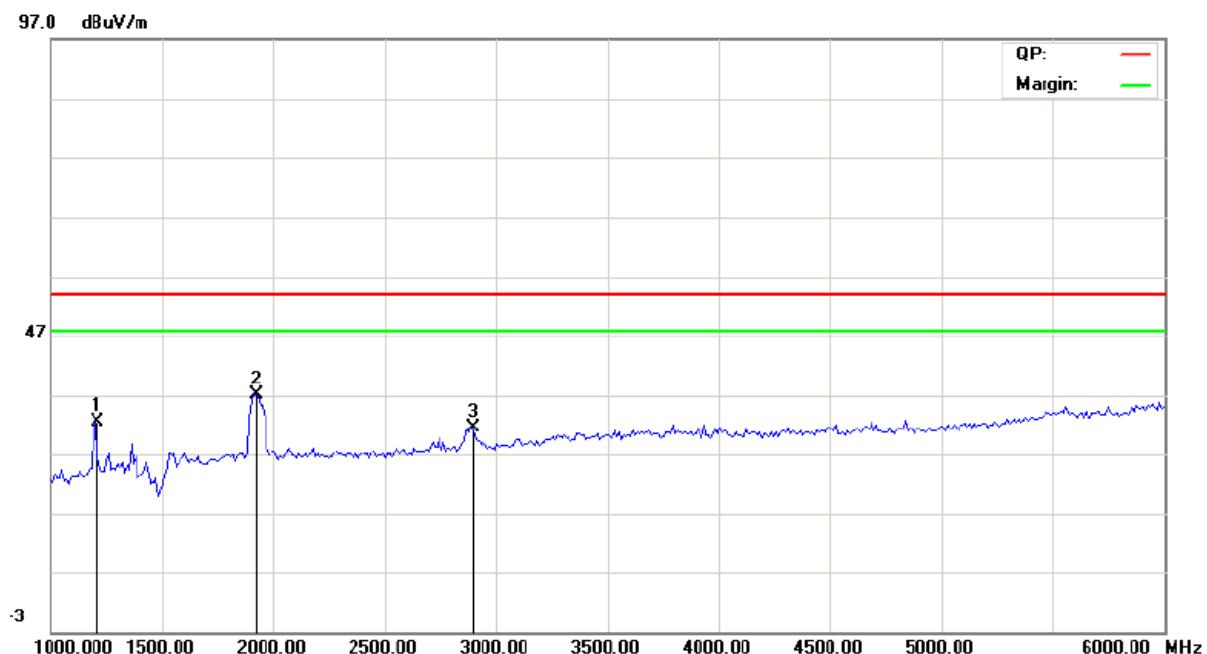
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Reading SD Card, Running EMC Test Program, Full Load**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
1200.401	32.62(PK)	V	54(AV)
1911.824	37.06(PK)	V	54(AV)
2886.768	31.75(PK)	V	54(AV)

Note: Due to the PK final radiated level less than the AV limit, so necessary take down the AV final radiated level

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## E: Radiated Disturbance (30MHz----1000MHz)

### EUT Operating Environment

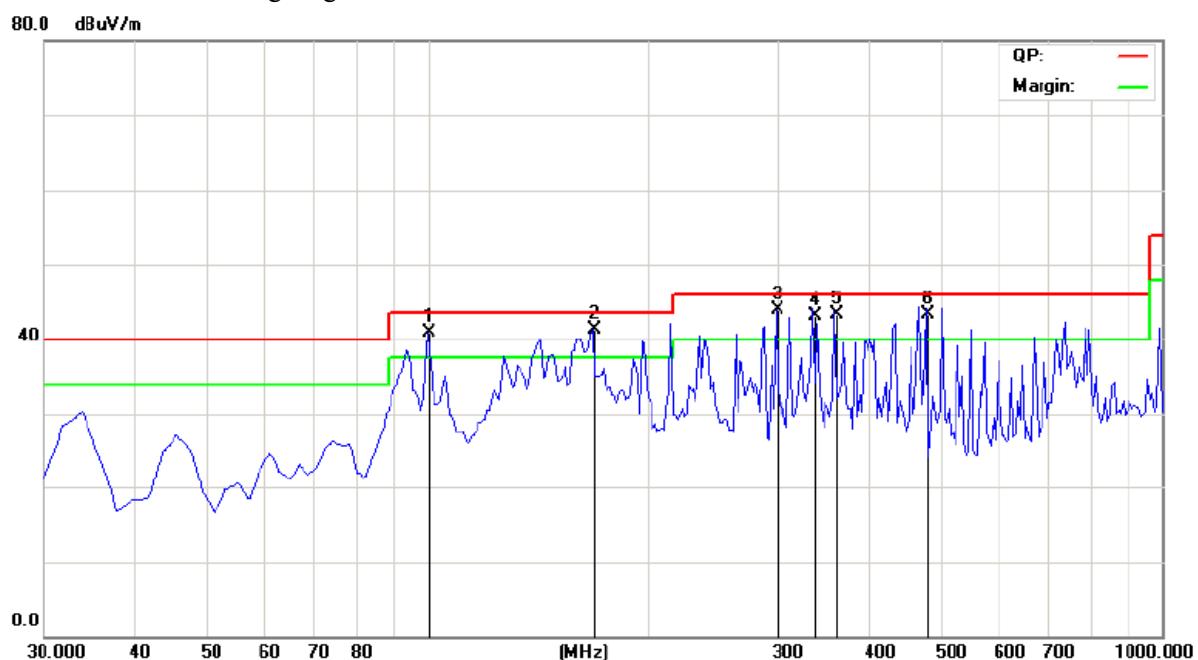
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition:** Data transmission (Note: EUT as a hard disk)

**Equipment Level:** Class B

**Results:** Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
99.9800	40.99	H	43.50
168.0160	41.36	H	43.50
300.2004	44.00	H	46.00
335.1904	43.20	H	46.00
360.0143	43.31	H	46.00
480.0107	43.25	H	46.00

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## F: Radiated Disturbance (30MHz----1000MHz)

### EUT Operating Environment

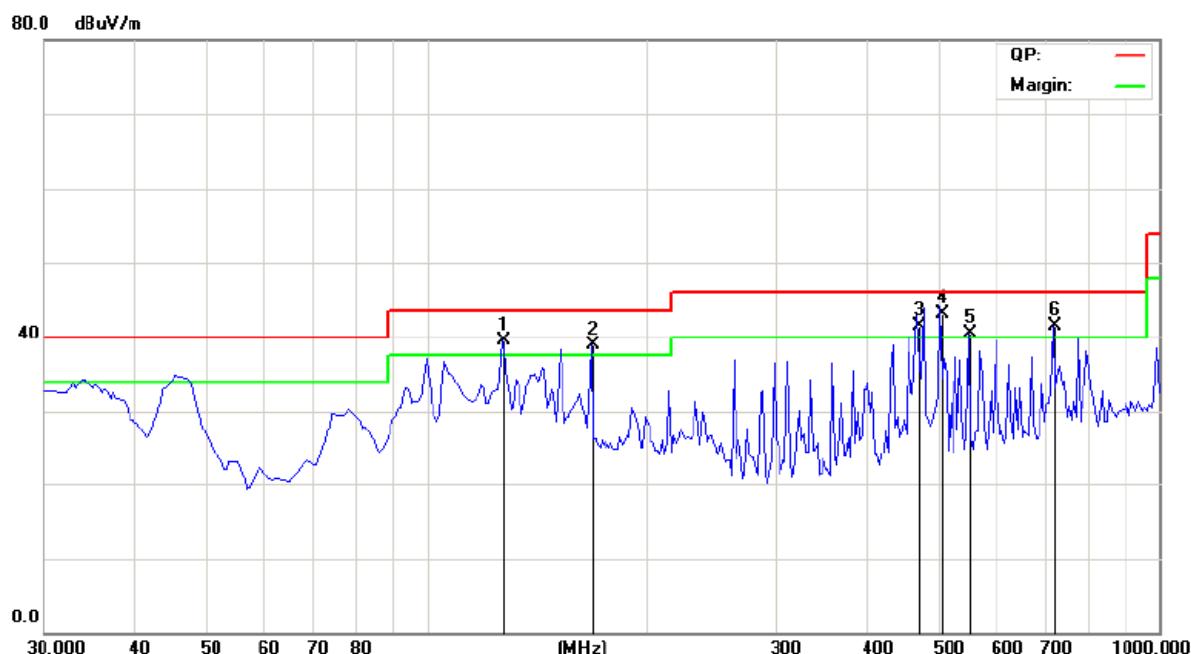
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Data transmission (Note: EUT as a hard disk)**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
127.1944	39.46	V	43.50
168.0160	38.81	V	43.50
470.4138	41.53	V	46.00
504.0008	43.16	V	46.00
552.9057	40.53	V	46.00
720.0801	41.53	V	46.00

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## G: Radiated Disturbance (1000MHz----10000MHz)

### EUT Operating Environment

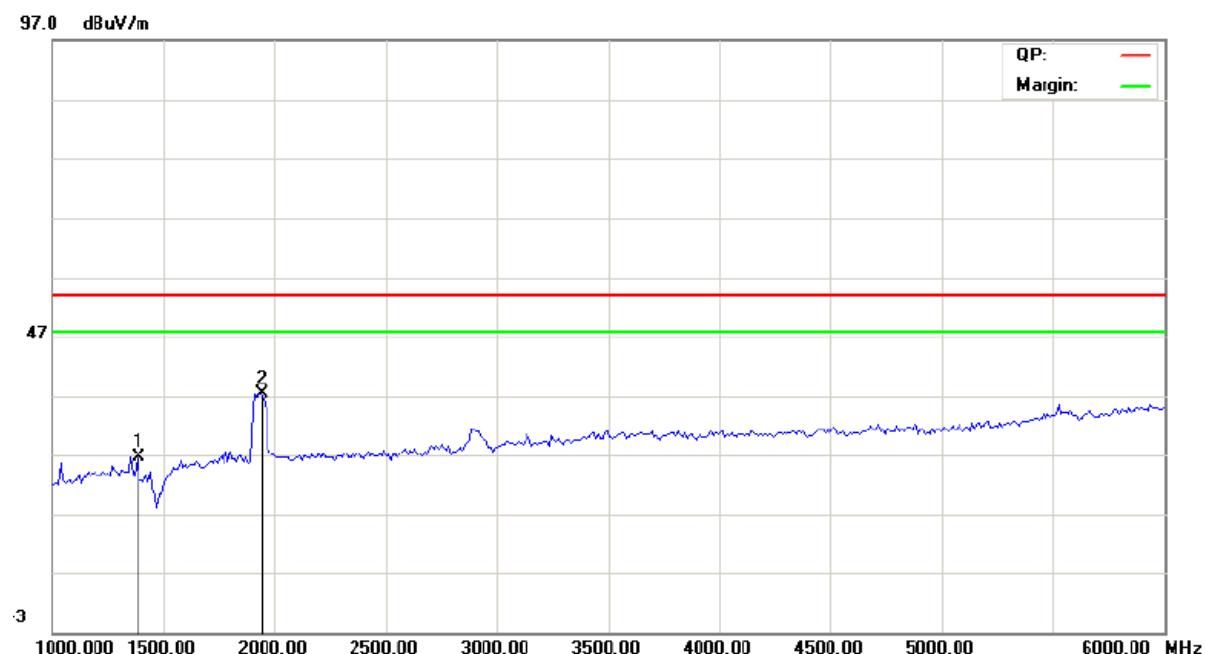
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition:** Data transmission (Note: EUT as a hard disk)

**Equipment Level:** Class B

**Results:** Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
1380.762	26.65 (PK)	H	54.00(AV)
1931.864	37.43(PK)	H	54.00(AV)

Note: Due to the PK final radiated level less than the AV limit, so necessary take down the AV final radiated level

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## H: Radiated Disturbance (1000MHz----10000MHz)

### EUT Operating Environment

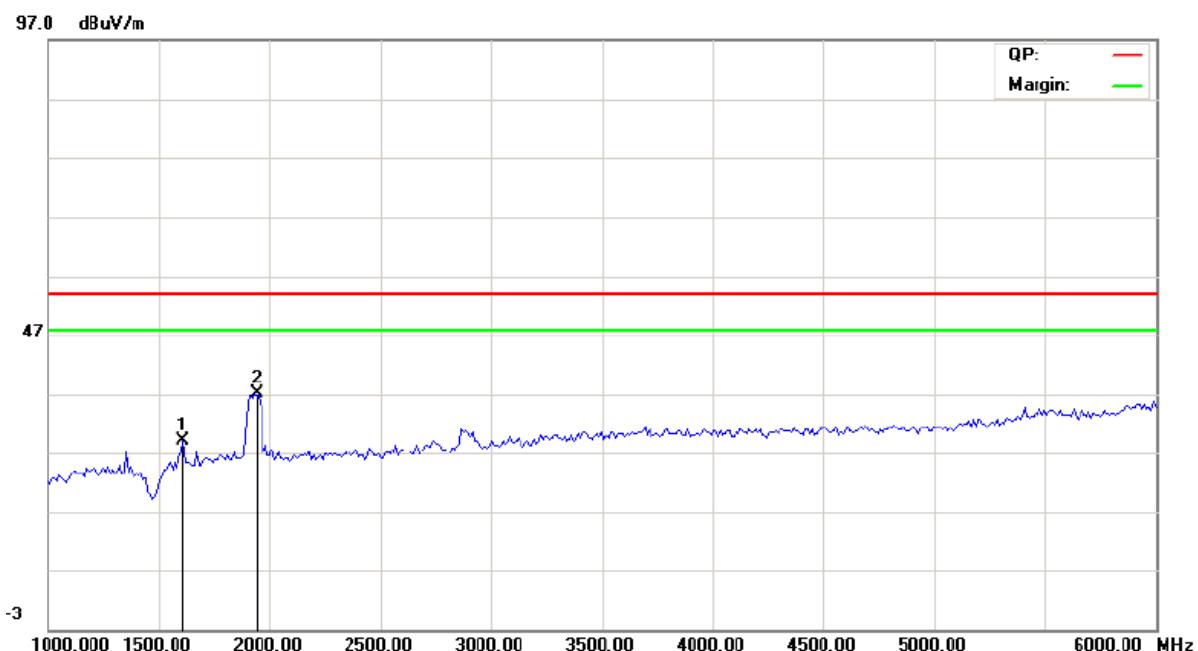
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Data transmission (Note: EUT as a hard disk)**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
1611.222	29.10 (PK)	V	54.00 (AV)
1931.864	37.12 (PK)	V	54.00 (AV)

Note: Due to the PK final radiated level less than the AV limit, so necessary take down the AV final radiated level

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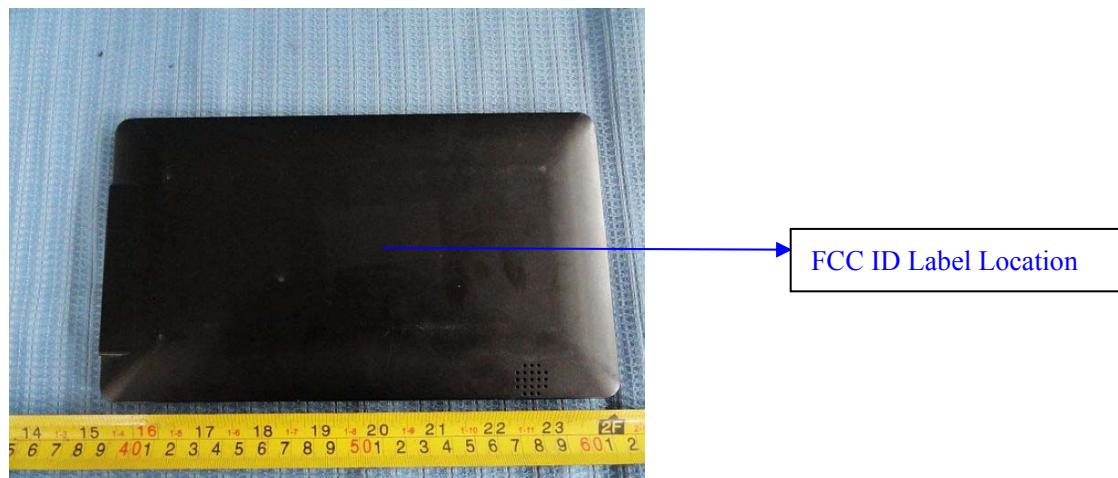
## 6.0 FCC Label

**FCC ID: ZIB-EB1001**

**This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

**Mark Location: On the product body**



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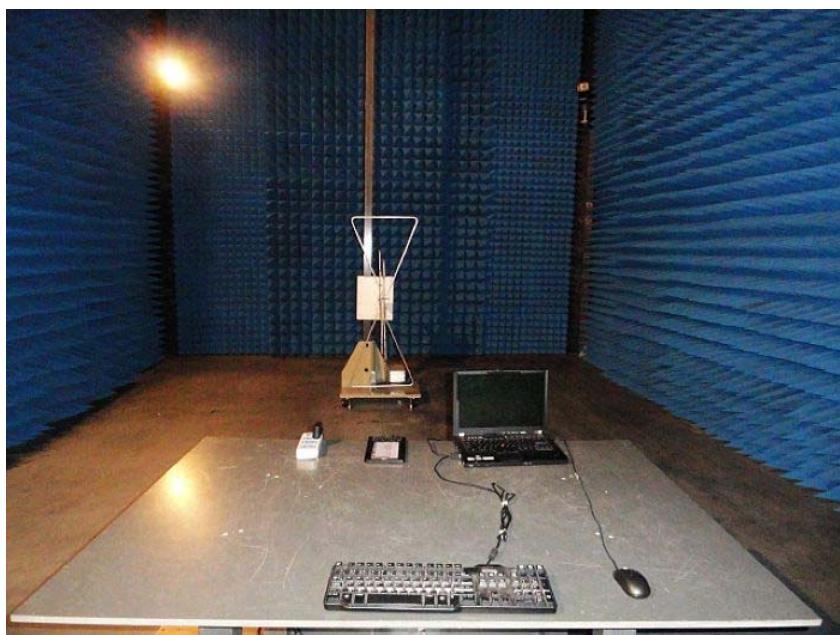


Appendix:

Conducted Emission



Radiated Emission Test View:



**NOTE: For the product photos, please see test report TW1104144-01**

**-End of the report-**

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