



# CERTIFICATE

**Issued Date: Apr. 17, 2007**  
**Report No.: 074L025-ITUSP02V02**

This is to certify that the following designated product

**Product : Motherboard**  
**Trade name : GIGABYTE**  
**Model Number : GA-G33-DS3, GA-P35-DS3, GA-P35-DS3R, GA-P35-S3R,  
GA-P35-S3, GA-G33-DS3R**  
**Company Name : GIGABYTE UNITED INC.**

This product, which has been issued the test report listed as above in Quietek Laboratory, is based on a single evaluation of one sample and confirmed to comply with the requirements of the following EMC standard.

**FCC CFR Title 47 Part 15 Subpart B: 2005 CISPR 22: 2005**  
**ANSI C63.4: 2003 ICES-003 Issue 4: 2004**

TEST LABORATORY

Gene Chang / President



## Test Report

Product Name : Motherboard  
Model No. : GA-G33-DS3, GA-P35-DS3, GA-P35-DS3R,  
GA-P35-S3R, GA-P35-S3, GA-G33-DS3R

Applicant : GIGABYTE UNITED INC.

Address : 8F., NO.6, BAOCIANG RD., SINDIAN CITY, TAIPEI  
COUNTY 231, TAIWAN (R.O.C.)

Date of Receipt : 2007/03/29

Issued Date : 2007/04/17

Report No. : 074L025-ITUSP02V02

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by CNLA, NVLAP, NIST or any agency of the Government.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

# DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2. 1077(a)



The following equipment:

Product Name : Motherboard

Trade Name : GIGABYTE

Model Number : GA-G33-DS3, GA-P35-DS3, GA-P35-DS3R, GA-P35-S3R, GA-P35-S3, GA-G33-DS3R

It's herewith confirmed to comply with the requirements of FCC Part 15 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 result of electromagnetic emission has been evaluated by QuieTek EMC laboratory (NVLAP Lab. Code : 200533-0 ) and showed in the test report.

( Report No. : 074L025-ITUSP02V02 )

It is understood that each unit marketed is identical to the device as tested, and any changes to the device that could adversely affect the emission characteristics will require retest.

The following importer / manufacturer is responsible for this declaration:

Company Name \_\_\_\_\_

Company Address \_\_\_\_\_

Telephone \_\_\_\_\_ Facsimile : \_\_\_\_\_

Person is responsible for marking this declaration:

\_\_\_\_\_  
Name ( Full name )

\_\_\_\_\_  
Position / Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Legal Signature

# Test Report Certification

Issued Date : 2007/04/17  
 Report No. : 074L025-ITUSP02V02



Product Name : Motherboard  
 Applicant : GIGABYTE UNITED INC.  
 Address : 8F., NO.6, BAOCIANG RD., SINDIAN CITY, TAIPEI  
 COUNTY 231, TAIWAN (R.O.C.)  
 Manufacturer : Nan-Ping Factory GIGABYTE TECHNOLOGY CO., LTD.  
 Model No. : GA-G33-DS3, GA-P35-DS3, GA-P35-DS3R,  
 GA-P35-S3R,GA-P35-S3, GA-G33-DS3R  
 Rated Voltage : AC 120 V / 60 Hz  
 EUT Voltage : Power by PC  
 Trade Name : GIGABYTE  
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart B: 2005 Class B  
 CISPR 22: 2005 ICES-003 Issue 4: 2004 Class B  
 ANSI C63.4: 2003  
 Test Result : Complied  
 Performed Location : Linkou EMC laboratory  
 No.5-22,Ruei-Shu Valley, Ruei-Ping Tsuen Lin Kuo  
 Shiang, Taipei, 244 Taiwan, R.O.C.  
 TEL:+866-2-8601-3788 / FAX:+886-2-8601-3789

Documented By : Joanne Lin  
 ( Engineering Adm. Assistant / Joanne Lin )

Reviewed By : Charlie Chang  
 (Assistant Engineer /Charlie Chang )

Approved By : Gene Chang  
 ( President / Gene Chang )

## Laboratory Information

We , **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited by the following accreditation Bodies in compliance with ISO 17025, EN 45001 and Guide 25:

<b>Taiwan R.O.C.</b>	<b>: BSMI, DGT, CNLA</b>
<b>Germany</b>	<b>: TÜV Rheinland</b>
<b>Norway</b>	<b>: Nemko, DNV</b>
<b>USA</b>	<b>: FCC, NVLAP</b>
<b>Japan</b>	<b>: VCCI</b>

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://tw.quietek.com/modules/myalbum/>  
 The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>  
 If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

### HsinChu Testing Laboratory :

No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.  
 TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : service@quietek.com



### LinKou Testing Laboratory :

No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen, Lin-Kou Shiang, Taipei, Taiwan, R.O.C.  
 TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : service@quietek.com



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1. General Information

1.1. EUT Description

Product Name	Motherboard
Trade Name	GIGABYTE
Model No.	GA-G33-DS3, GA-P35-DS3, GA-P35-DS3R, GA-P35-S3R,GA-P35-S3, GA-G33-DS3R

Mode 1~Mode 6	
Component	
CPU	Intel: Pentium IV (LGA 775) 3.8GHz/800MHz, FSB: 200MHz Intel: Pentium IV (LGA 775) 3.73GHz/1066MHz, FSB: 266MHz Intel: Pentium IV (LGA 775) 3.0GHz/1333MHz, FSB: 333MHz
HDD	Westem Digital, WD1600JS-00MHBO
FDD	MITSUMI, D353M3D
DVD-R/W	GIGABYTE, GO-B5232B
VGA Card	On Board
LAN Card	On Board
Sound Card	On Board
Power Supply	Seventeam, ST-250B2P
DDR II -RAM	A-DATA, M20EL6F3H4170A1E5Z*4

Mode 7~Mode 12	
Component	
CPU	Intel: Pentium IV (LGA 775) 3.8GHz/800MHz, FSB: 200MHz Intel: Pentium IV (LGA 775) 3.73GHz/1066MHz, FSB: 266MHz Intel: Pentium IV (LGA 775) 3.0GHz/1333MHz, FSB: 333MHz
HDD	Westem Digital, WD1600JS-00MHBO
FDD	MITSUMI, D353M3D
DVD-R/W	GIGABYTE, GO-B5232B
VGA Card	GIGABYTE, GV-NX66T128D
LAN Card	On Board
Sound Card	On Board
Power Supply	Seventeam, ST-250B2P
DDR II -RAM	A-DATA, M20EL6F3H4170A1E5Z*4

**1.2. The different of each model is shown as below:**

Model Number	Description
GA-G33-DS3	VGA on board, South bridge 1CH9, Electric capacity of solid state
GA-G33-DS3R	VGA on board, South bridge 1CH9R, Electric capacity of solid state
GA-P35-DS3R	Without VGA, South bridge 1CH9R, Electric capacity of solid state
GA-P35-DS3	Without VGA, South bridge 1CH9, Electric capacity of solid state
GA-P35-S3R	Without VGA, South bridge 1CH9R, Electrolytic electric capacity
GA-P35-S3	Without VGA, South bridge 1CH9, Electrolytic electric capacity



**1.3. Mode of Operation**

Quietek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode	
Mode 1: GA-G33-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1920*1440/85Hz),Case Close	
Mode 2: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.73GHz/266MHz,D-SUB(1600*1200/85Hz),Case Close	
Mode 3: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.80GHz/200MHz,D-SUB(1024*768/75Hz),Case Close	
Mode 4: GA-G33-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1920*1440/85Hz),Case Open	
Mode 5: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.73GHz/266MHz,D-SUB(1600*1200/85Hz),Case Open	
Mode 6: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.80GHz/200MHz,D-SUB(1024*768/75Hz),Case Open	
Mode 7: GA-P35-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1024*768/75Hz),Case Close	
Mode 8: GA-P35-DS3,Intel Pentium IV(LGA 775) 3.73GHz/266MHz,D-SUB(1024*768/75Hz),Case Close	
Mode 9: GA-P35-DS3,Intel Pentium IV(LGA 775) 3.80GHz/200MHz,D-SUB(1024*768/75Hz),Case Close	
Mode 10: GA-P35-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1024*768/75Hz),Case Open	
Mode 11: GA-P35-DS3,Intel Pentium IV(LGA 775) 3.73GHz/266MHz,D-SUB(1024*768/75Hz),Case Open	
Mode 12: GA-P35-DS3,Intel Pentium IV(LGA 775) 3.80GHz/200MHz,D-SUB(1024*768/75Hz),Case Open	
Final Test Mode	
Conducted Emission	Mode 1: GA-G33-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1920*1440/85Hz),Case Close
	Mode 2: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.73GHz/266MHz,D-SUB(1600*1200/85Hz),Case Close
	Mode 3: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.80GHz/200MHz,D-SUB(1024*768/75Hz),Case Close
	Mode 7: GA-P35-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1024*768/75Hz),Case Close
Radiated Emission	Mode 1: GA-G33-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1920*1440/85Hz),Case Close
	Mode 2: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.73GHz/266MHz,D-SUB(1600*1200/85Hz),Case Close
	Mode 3: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.80GHz/200MHz,D-SUB(1024*768/75Hz),Case Close
	Mode 4: GA-G33-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1920*1440/85Hz),Case Open
	Mode 5: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.73GHz/266MHz,D-SUB(1600*1200/85Hz),Case Open
	Mode 6: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.80GHz/200MHz,D-SUB(1024*768/75Hz),Case Open
	Mode 7: GA-P35-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1024*768/75Hz),Case Close
Mode 10: GA-P35-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1024*768/75Hz),Case Open	

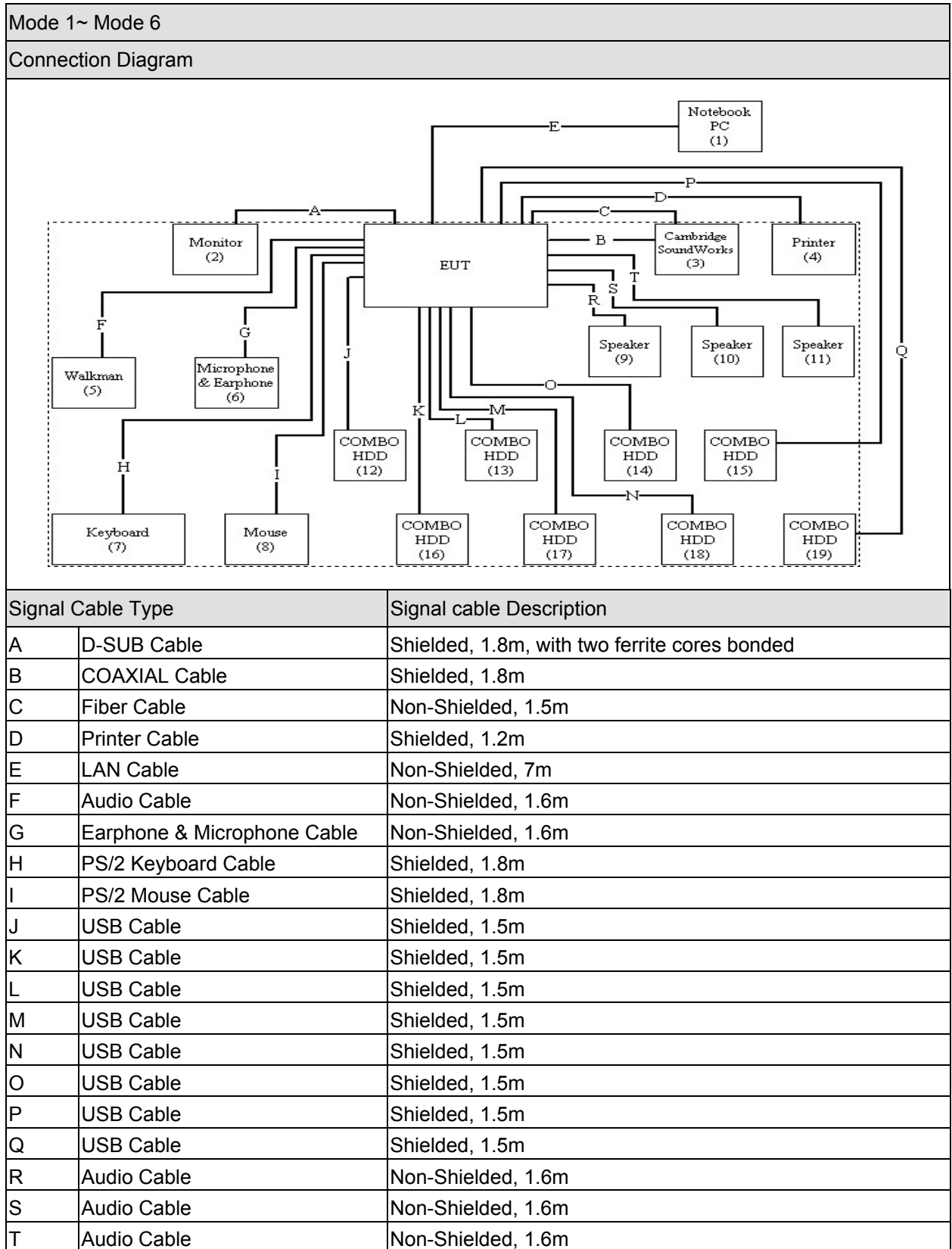
## 1.4. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Mode 1~ Mode 6					
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	DELL	PPT	N/A	Non-Shielded, 0.8m
2	Monitor	SONY	CPD-G500	2706563	Non-Shielded, 1.8m
3	Cambridge SoundWorks	Creative	S80130	AM01302400003563	Non-Shielded, 1.8m
4	Printer	EPSON	StyLus C63	FAPY094246	Non-Shielded, 1.6m
5	Walkman	AIWA	HS-TA164	N/A	N/A
6	Microphone & Earphone	N/A	MIC-06	N/A	N/A
7	Keyboard	Logitech	Y-SM46	867404-0121	N/A
8	Mouse	HP	M-S69	N/A	N/A
9	Speaker	IBM	IBM FRU PN 09N5395	N/A	N/A
10	Speaker	IBM	IBM FRU PN 09N5395	N/A	N/A
11	Speaker	IBM	IBM FRU PN 09N5395	N/A	N/A
12	COMBO HDD	TeraSys	F12-UF	A0100215-64b0019	Non-Shielded 1.8m
13	COMBO HDD	TeraSys	F12-UF	A0100215-63m0031	Non-Shielded 1.8m
14	COMBO HDD	TeraSys	F12-UF	A0100215-64b0018	Non-Shielded 1.8m
15	COMBO HDD	TeraSys	F12-UF	A0100215-64b0010	Non-Shielded 1.8m
16	COMBO HDD	TeraSys	F12-UF	A0100215-64b0015	Non-Shielded 1.8m
17	COMBO HDD	TeraSys	F12-UF	A0100215-64b0007	Non-Shielded, 1.8m
18	COMBO HDD	TeraSys	F12-UF	A0100215-64b0016	Non-Shielded 1.8m
19	COMBO HDD	TeraSys	F12-UF	A0100215-64b0009	Non-Shielded, 1.8m

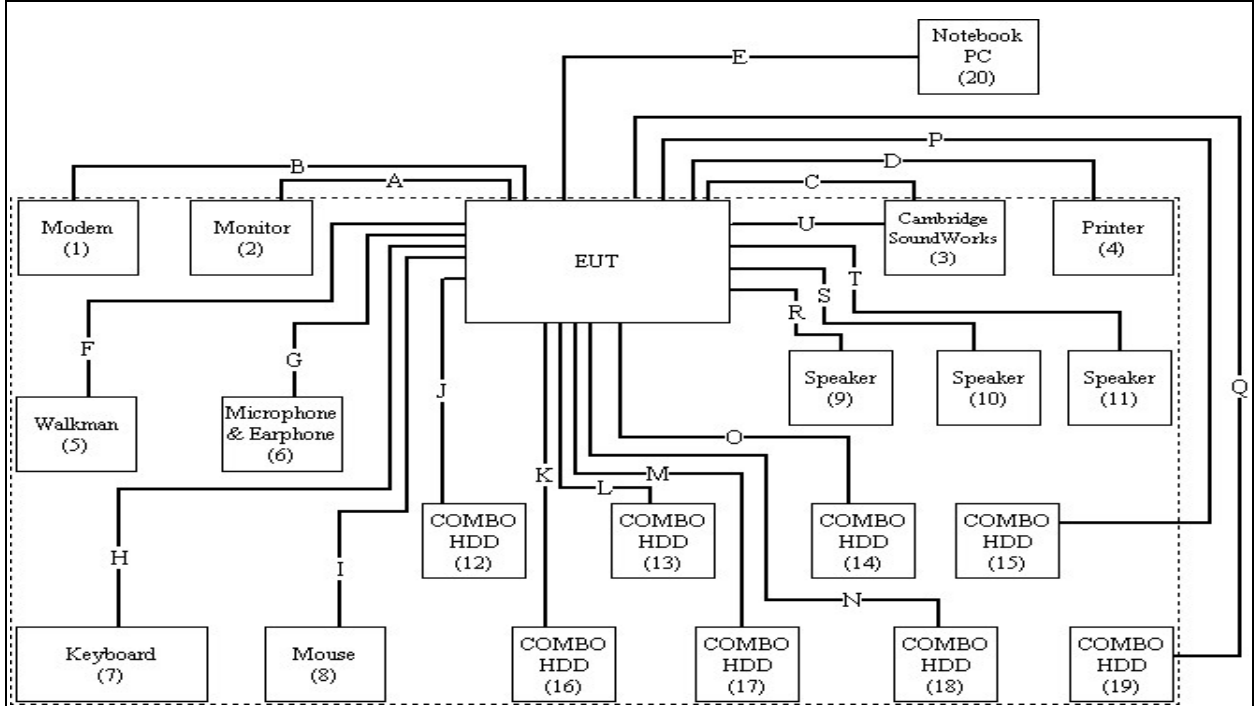
Mode 7~Mode 12					
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Modem	ACEEX	DM-1414	0102027536	Non-Shielded, 1.6m
2	Monitor	SONY	CPD-G500	2706563	Non-Shielded, 1.8m
3	Cambridge SoundWorks	Creative	S80130	AM01302400003563	Non-Shielded, 1.8m
4	Printer	EPSON	StyLus C63	FAPY094246	Non-Shielded, 1.6m
5	Walkman	AIWA	HS-TA164	N/A	N/A
6	Microphone & Earphone	N/A	MIC-06	N/A	N/A
7	Keyboard	Logitech	Y-SM46	867404-0121	N/A
8	Mouse	HP	M-S69	N/A	N/A
9	Speaker	IBM	IBM FRU PN 09N5395	N/A	N/A
10	Speaker	IBM	IBM FRU PN 09N5395	N/A	N/A
11	Speaker	IBM	IBM FRU PN 09N5395	N/A	N/A
12	COMBO HDD	TeraSys	F12-UF	A0100215-64b0019	Non-Shielded 1.8m
13	COMBO HDD	TeraSys	F12-UF	A0100215-63m0031	Non-Shielded 1.8m
14	COMBO HDD	TeraSys	F12-UF	A0100215-64b0018	Non-Shielded 1.8m
15	COMBO HDD	TeraSys	F12-UF	A0100215-64b0010	Non-Shielded 1.8m
16	COMBO HDD	TeraSys	F12-UF	A0100215-64b0015	Non-Shielded 1.8m
17	COMBO HDD	TeraSys	F12-UF	A0100215-64b0007	Non-Shielded, 1.8m
18	COMBO HDD	TeraSys	F12-UF	A0100215-64b0016	Non-Shielded 1.8m
19	COMBO HDD	TeraSys	F12-UF	A0100215-64b0009	Non-Shielded, 1.8m
20	Notebook PC	DELL	PPT	N/A	Non-Shielded, 0.8m

1.5. Configuration of Tested System



Mode 7~Mode 12

Connection Diagram



Signal Cable Type		Signal cable Description
A	D-SUB Cable	Shielded, 1.8m, with two ferrite cores bonded
B	RS232 Cable	Shielded, 1.5m
C	Fiber Cable	Non-Shielded, 1.5m
D	Printer Cable	Shielded, 1.2m
E	LAN Cable	Non-Shielded, 7m
F	Audio Cable	Non-Shielded, 1.6m
G	Earphone & Microphone Cable	Non-Shielded, 1.6m
H	PS/2 Keyboard Cable	Shielded, 1.8m
I	PS/2 Mouse Cable	Shielded, 1.8m
J	USB Cable	Shielded, 1.5m
K	USB Cable	Shielded, 1.5m
L	USB Cable	Shielded, 1.5m
M	USB Cable	Shielded, 1.5m
N	USB Cable	Shielded, 1.5m
O	USB Cable	Shielded, 1.5m
P	USB Cable	Shielded, 1.5m
Q	USB Cable	Shielded, 1.5m
R	Audio Cable	Non-Shielded, 1.6m
S	Audio Cable	Non-Shielded, 1.6m
T	Audio Cable	Non-Shielded, 1.6m
U	COAXIAL Cable	Shielded, 1.8m

## 1.6. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.4.
2	Turn on the power of all equipment.
3	Personal Computer (EUT) reads data from disk.
4	EUT will sends "H" pattern to monitor, the monitor will show "H" pattern on the screen.
5	EUT sends "H" pattern to printer, the printer will print "H" pattern on paper.
6	EUT reads and writes data into and from modem.
7	EUT will read data from floppy disk and then writes the data into floppy disk, same operation for hard disk.
8	EUT Connect another simulation PC through LAN port and carry out Read/Write work each other
9	Repeat the above procedure (3) to (8).

**2. Technical Test**

**2.1. Summary of Test Result**

- No deviations from the test standards
- Deviations from the test standards as below description:

Emission			
Performed Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart B: 2005 Class B ANSI C63.4: 2003	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart B: 2005 Class B ANSI C63.4: 2003	Yes	No

## 2.2. List of Test Equipment

### Conducted Emission / SR1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESCS 30	836858/022	2007/02/12
LISN	R&S	ESH3-Z5	836679/020	2007/01/26
LISN	R&S	ENV4200	833209/007	2006/07/13
Pulse Limiter	R&S	ESH3-Z2	357.88.10.52	2006/09/04

### Radiated Emission / Site3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2704	2006/08/09
Broadband Horn Antenna	Schwarzbeck	BBHA9170	208	2006/07/25
EMI Test Receiver	R&S	ESI26	838786/004	2006/06/19
EMI Test Receiver	R&S	ESCS 30	838251/001	2006/05/11
Horn Antenna	Schwarzbeck	BBHA9120D	305	2006/08/10
Pre-Amplifier	MITEQ	AMF-4D-18040 0-45-6P	925974	2007/01/03
Pre-Amplifier	QTK	N/A	N/A	2007/01/03
Spectrum Analyzer	Advantest	R3162	101102468	2006/10/24



### **2.3. Measurement Uncertainty**

#### Conducted Emission

The measurement uncertainty is evaluated as  $\pm 2.26$  dB.

#### Radiated Emission

The measurement uncertainty is evaluated as  $\pm 3.19$  dB.

**2.4. Test Environment**

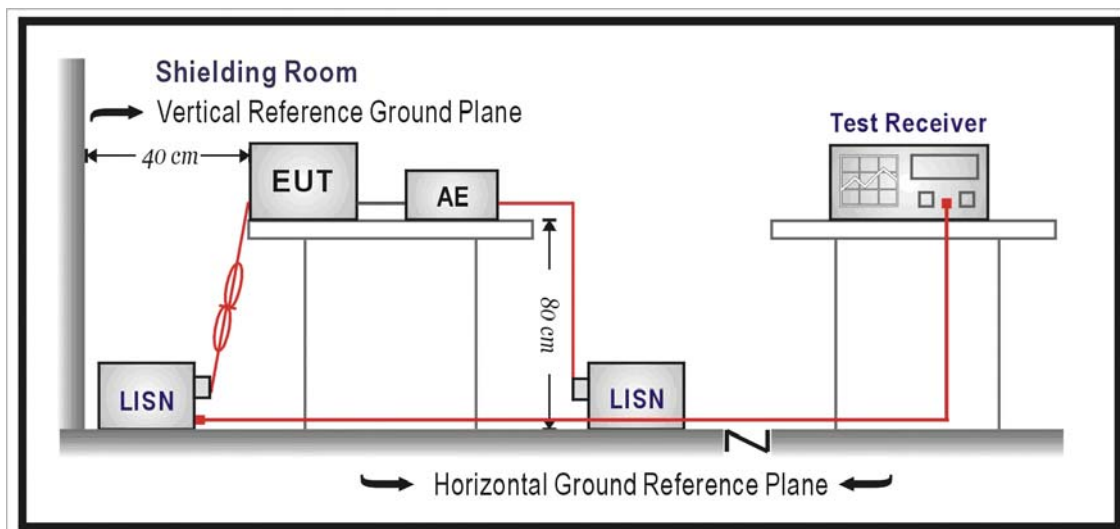
Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	50
	Barometric pressure (mbar)	860-1060	950-1000
Radiated Emission	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	50
	Barometric pressure (mbar)	860-1060	950-1000

### 3. Conducted Emission

#### 3.1. Test Specification

According to Standard : FCC Part 15 Subpart B, ANSI C63.4

#### 3.2. Test Setup



#### 3.3. Limit

Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

### 3.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

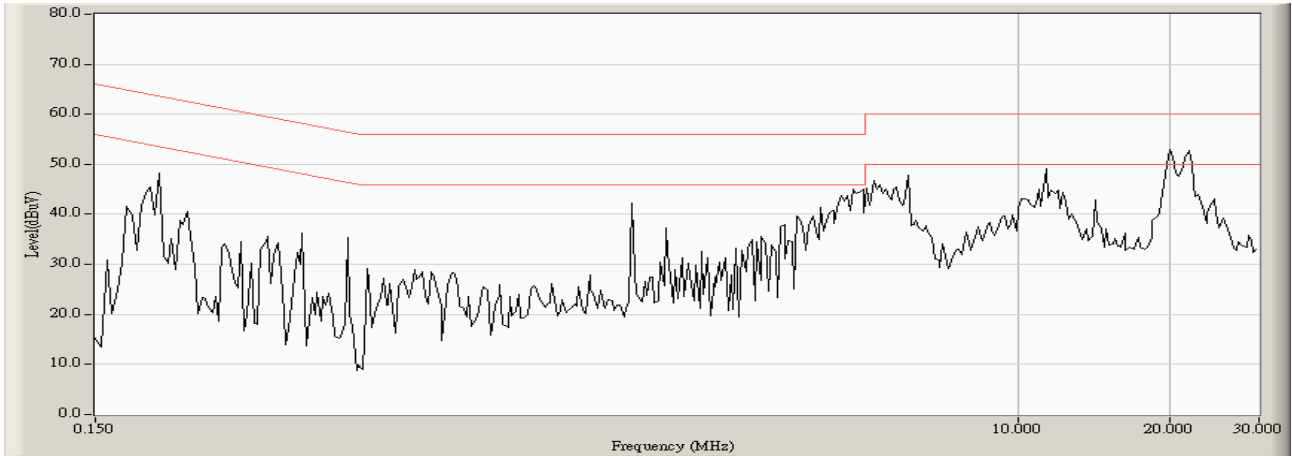
(Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.

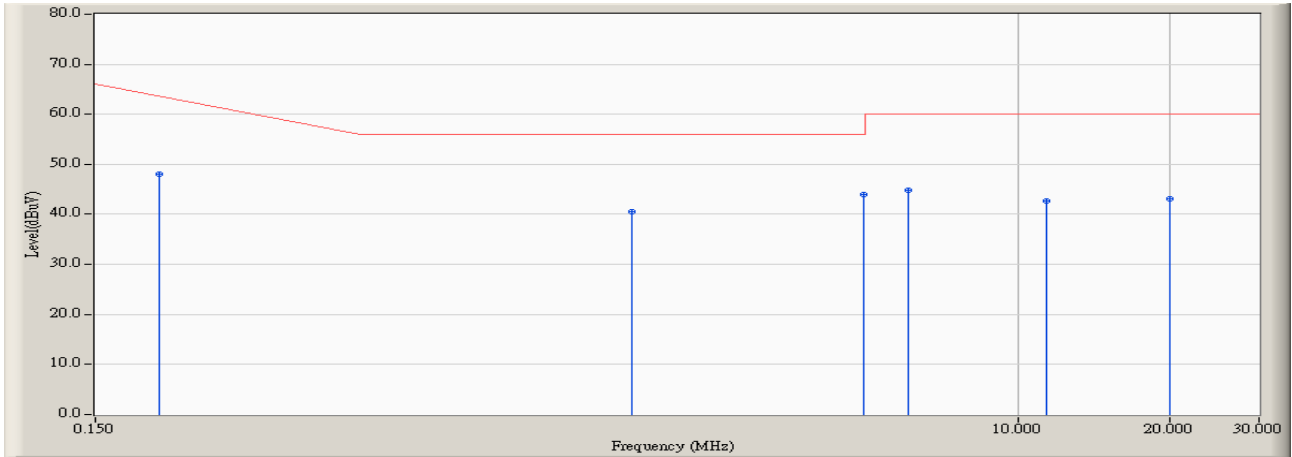
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

**3.5. Test Result**

Site : SR-1	Time : 2007/04/02 - 16:44
Limit : CISPR_B_00M_QP	Margin : 10
EUT : Motherboard	Probe : LISN-020(L) - Line1
Power : AC 120V/60HZ	Note : Mode 1



Site : SR-1	Time : 2007/04/02 - 16:45
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Motherboard	Probe : LISN-020(L) - Line1
Power : AC 120V/60HZ	Note : Mode 1

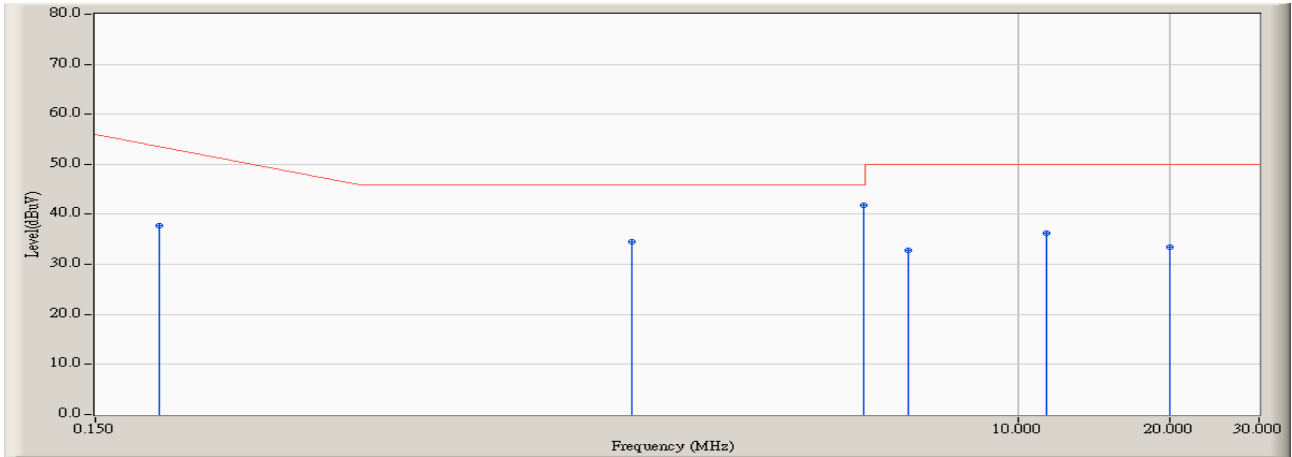


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.201	0.202	47.870	48.072	-16.471	64.543	QUASIPeAK
2		1.728	0.263	40.230	40.493	-15.507	56.000	QUASIPeAK
3	*	4.947	0.396	43.620	44.016	-11.984	56.000	QUASIPeAK
4		6.056	0.451	44.330	44.781	-15.219	60.000	QUASIPeAK
5		11.384	0.701	41.990	42.691	-17.309	60.000	QUASIPeAK
6		19.935	0.966	42.140	43.106	-16.894	60.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2007/04/02 - 16:45
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Motherboard	Probe : LISN-020(L) - Line1
Power : AC 120V/60HZ	Note : Mode 1

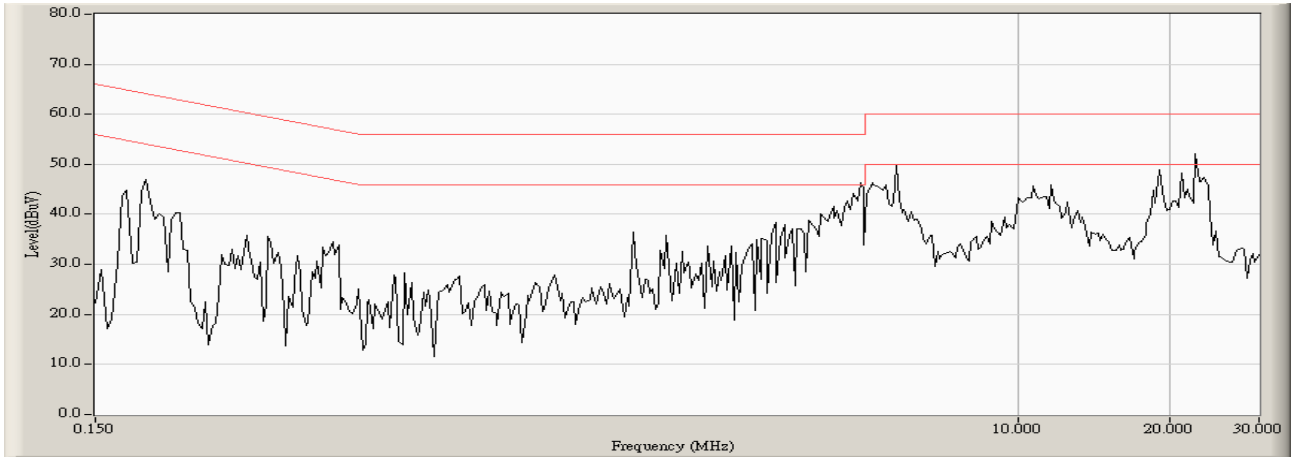


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.201	0.202	37.580	37.782	-16.761	54.543	AVERAGE
2		1.728	0.263	34.350	34.613	-11.387	46.000	AVERAGE
3	*	4.947	0.396	41.410	41.806	-4.194	46.000	AVERAGE
4		6.056	0.451	32.310	32.761	-17.239	50.000	AVERAGE
5		11.384	0.701	35.650	36.351	-13.649	50.000	AVERAGE
6		19.935	0.966	32.390	33.356	-16.644	50.000	AVERAGE

**Note:**

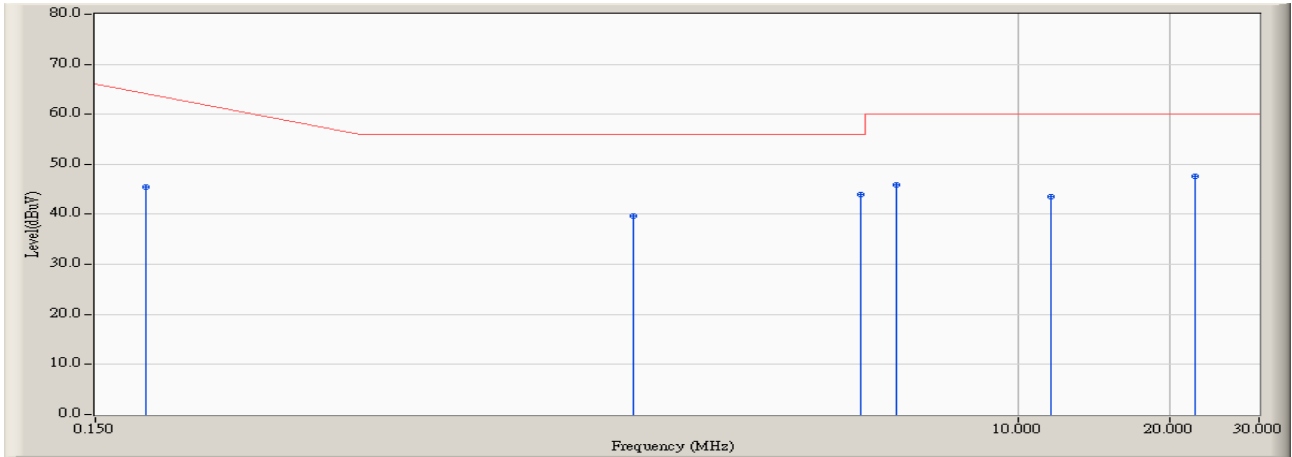
1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2007/04/02 - 16:46
Limit : CISPR_B_00M_QP	Margin : 10
EUT : Motherboard	Probe : LISN-020(N) - Line2
Power : AC 120V/60HZ	Note : Mode 1





Site : SR-1	Time : 2007/04/02 - 16:47
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Motherboard	Probe : LISN-020(N) - Line2
Power : AC 120V/60HZ	Note : Mode 1

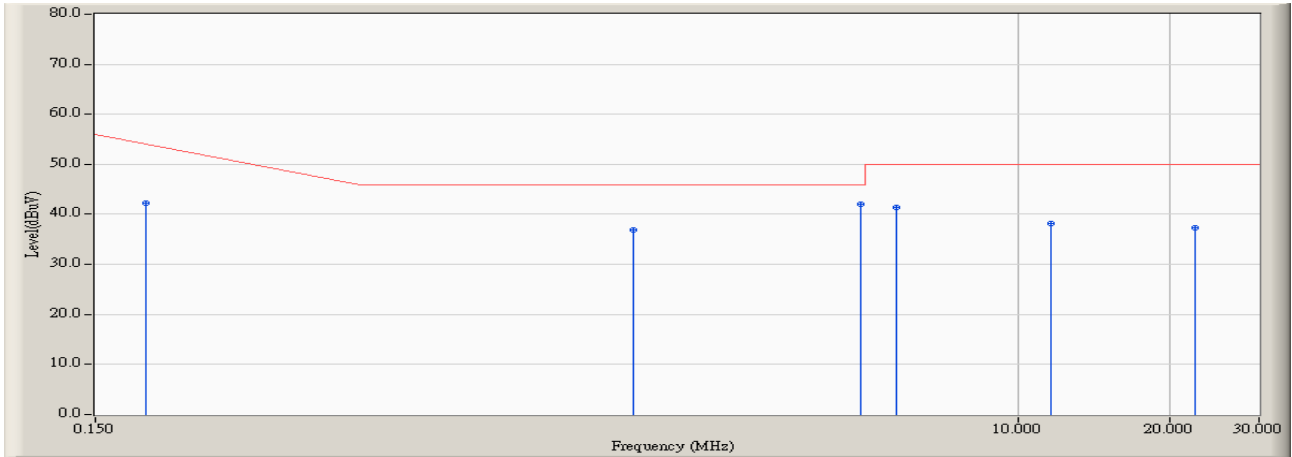


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.189	0.202	45.270	45.472	-19.414	64.886	QUASIPeAK
2		1.732	0.263	39.440	39.703	-16.297	56.000	QUASIPeAK
3	*	4.880	0.375	43.670	44.045	-11.955	56.000	QUASIPeAK
4		5.763	0.406	45.470	45.876	-14.124	60.000	QUASIPeAK
5		11.658	0.625	42.930	43.555	-16.445	60.000	QUASIPeAK
6		22.502	0.800	46.890	47.690	-12.310	60.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2007/04/02 - 16:47
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Motherboard	Probe : LISN-020(N) - Line2
Power : AC 120V/60HZ	Note : Mode 1

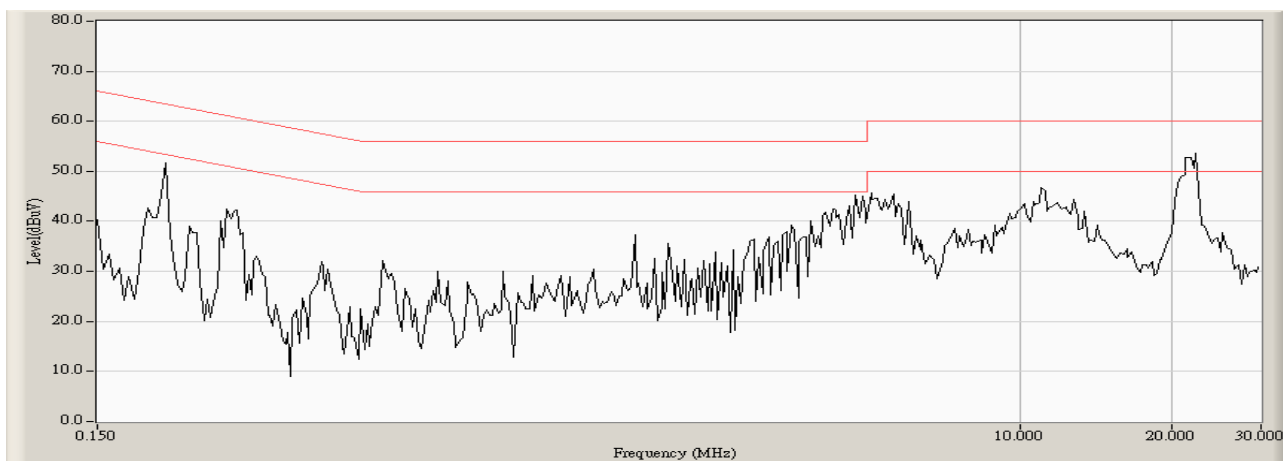


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.189	0.202	42.050	42.252	-12.634	54.886	AVERAGE
2		1.732	0.263	36.620	36.883	-9.117	46.000	AVERAGE
3	*	4.880	0.375	41.660	42.035	-3.965	46.000	AVERAGE
4		5.763	0.406	40.930	41.336	-8.664	50.000	AVERAGE
5		11.658	0.625	37.530	38.155	-11.845	50.000	AVERAGE
6		22.502	0.800	36.530	37.330	-12.670	50.000	AVERAGE

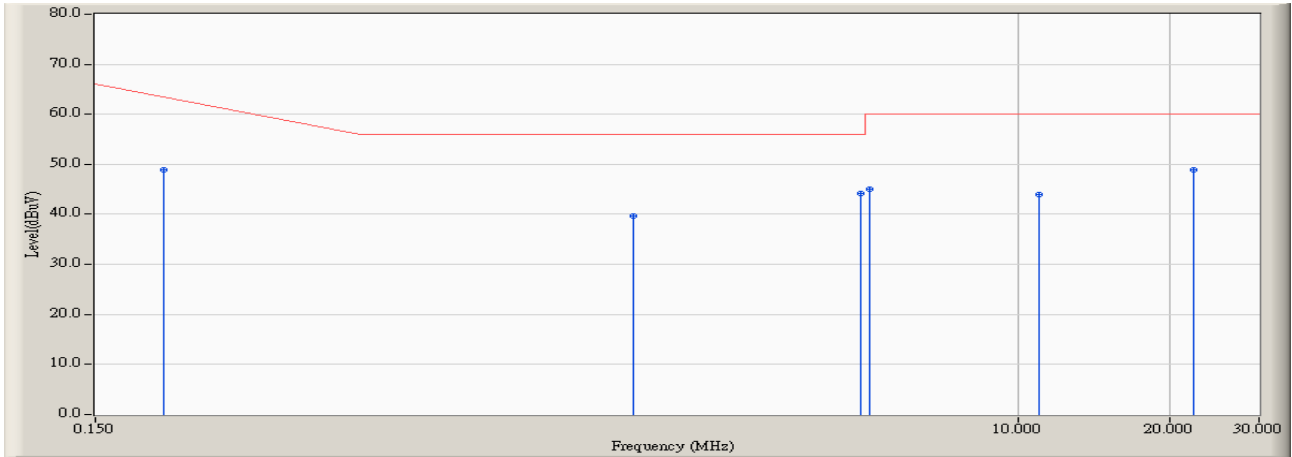
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2007/04/02 - 16:05
Limit : CISPR_B_00M_QP	Margin : 10
EUT : Motherboard	Probe : LISN-020(L) - Line1
Power : AC 120V/60HZ	Note : Mode 2



Site : SR-1	Time : 2007/04/02 - 16:07
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Motherboard	Probe : LISN-020(L) - Line1
Power : AC 120V/60HZ	Note : Mode 2

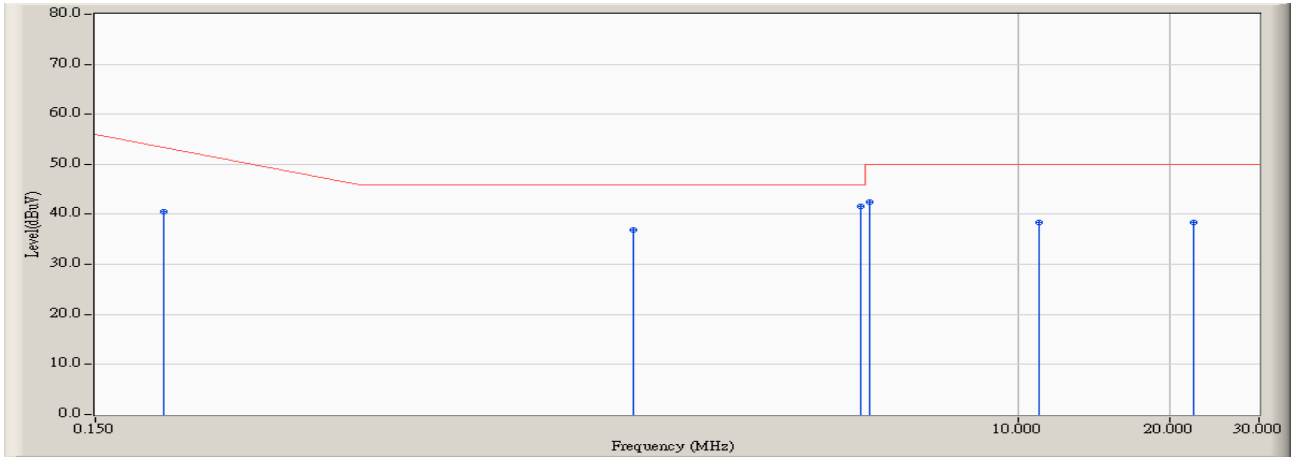


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.205	0.202	48.740	48.942	-15.487	64.429	QUASIPeAK
2		1.732	0.263	39.340	39.603	-16.397	56.000	QUASIPeAK
3		4.880	0.395	43.810	44.205	-11.795	56.000	QUASIPeAK
4		5.084	0.407	44.590	44.997	-15.003	60.000	QUASIPeAK
5		11.048	0.687	43.200	43.887	-16.113	60.000	QUASIPeAK
6	*	22.236	1.036	47.930	48.966	-11.034	60.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2007/04/02 - 16:07
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Motherboard	Probe : LISN-020(L) - Line1
Power : AC 120V/60HZ	Note : Mode 2

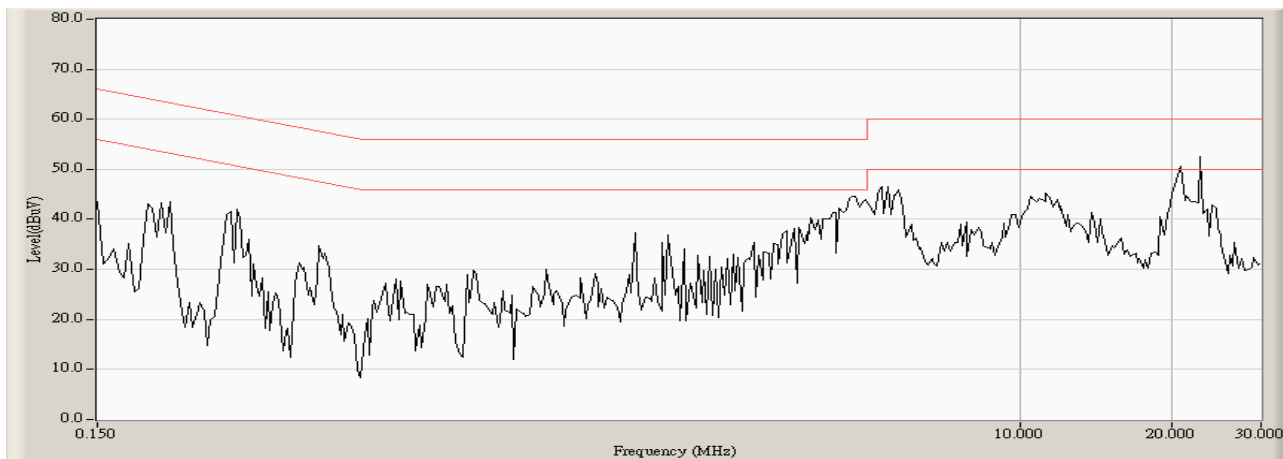


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.205	0.202	40.310	40.512	-13.917	54.429	AVERAGE
2		1.732	0.263	36.620	36.883	-9.117	46.000	AVERAGE
3	*	4.880	0.395	41.280	41.675	-4.325	46.000	AVERAGE
4		5.084	0.407	42.150	42.557	-7.443	50.000	AVERAGE
5		11.048	0.687	37.670	38.357	-11.643	50.000	AVERAGE
6		22.236	1.036	37.300	38.336	-11.664	50.000	AVERAGE

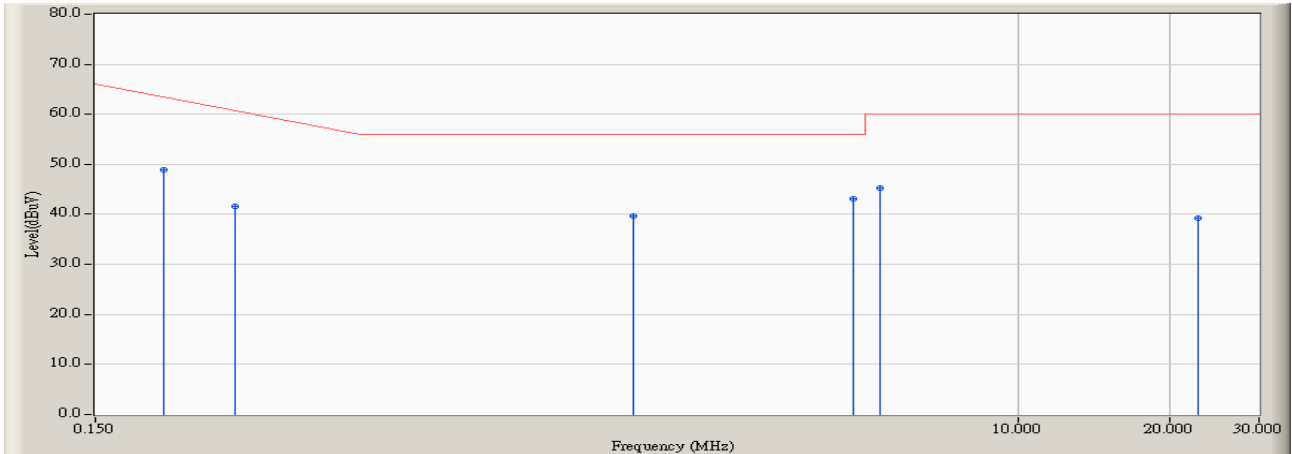
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2007/04/02 - 16:08
Limit : CISPR_B_00M_QP	Margin : 10
EUT : Motherboard	Probe : LISN-020(N) - Line2
Power : AC 120V/60HZ	Note : Mode 2



Site : SR-1	Time : 2007/04/02 - 16:10
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Motherboard	Probe : LISN-020(N) - Line2
Power : AC 120V/60HZ	Note : Mode 2

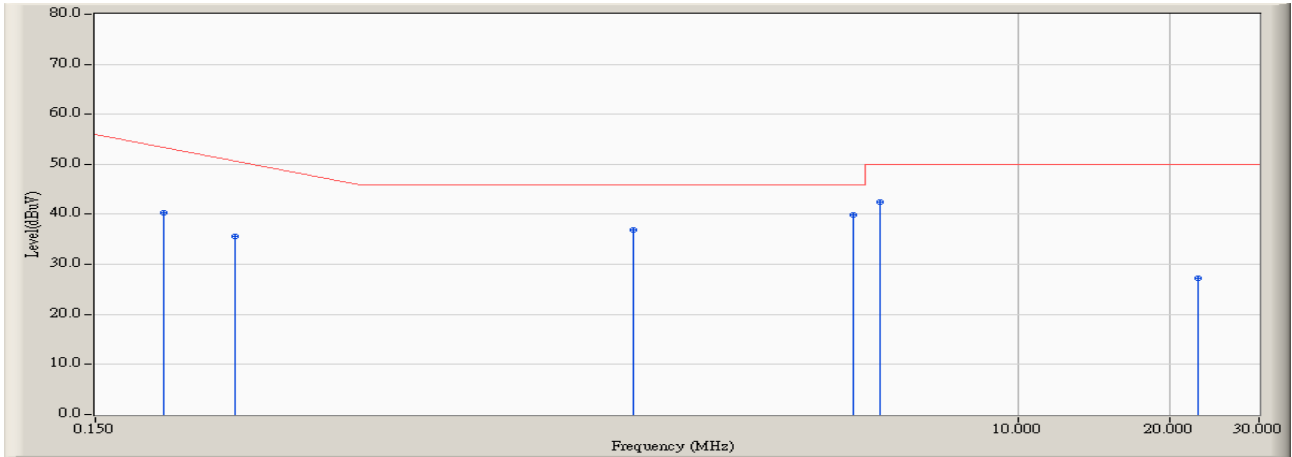


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.205	0.202	48.660	48.862	-15.567	64.429	QUASIPeAK
2		0.283	0.204	41.420	41.625	-20.575	62.200	QUASIPeAK
3		1.732	0.263	39.380	39.643	-16.357	56.000	QUASIPeAK
4	*	4.744	0.373	42.830	43.203	-12.797	56.000	QUASIPeAK
5		5.357	0.391	44.800	45.191	-14.809	60.000	QUASIPeAK
6		22.728	0.803	38.490	39.293	-20.707	60.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2007/04/02 - 16:10
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Motherboard	Probe : LISN-020(N) - Line2
Power : AC 120V/60HZ	Note : Mode 2



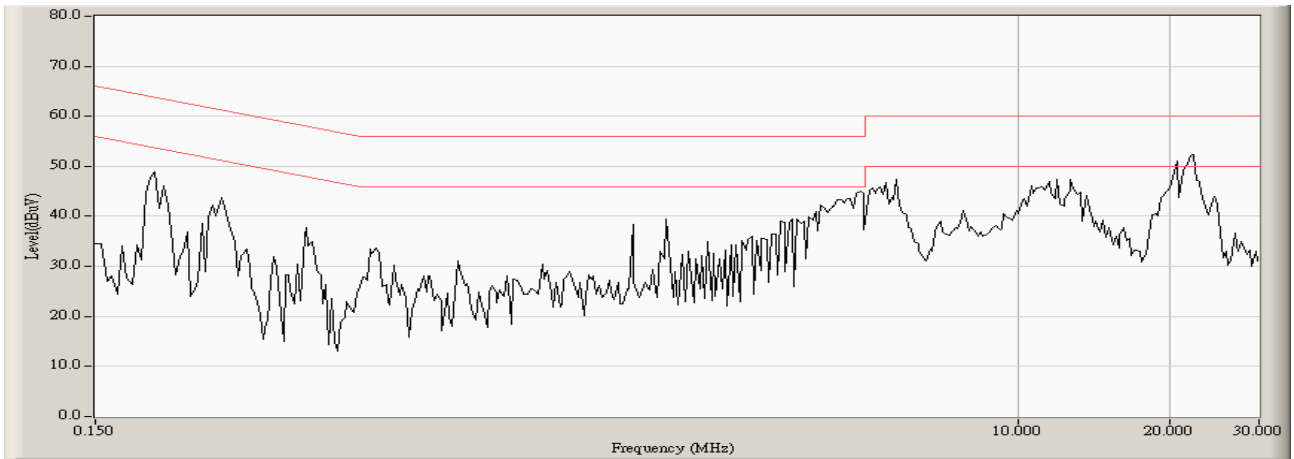
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.205	0.202	40.140	40.342	-14.087	54.429	AVERAGE
2		0.283	0.204	35.420	35.625	-16.575	52.200	AVERAGE
3		1.732	0.263	36.700	36.963	-9.037	46.000	AVERAGE
4	*	4.744	0.373	39.540	39.913	-6.087	46.000	AVERAGE
5		5.357	0.391	42.020	42.411	-7.589	50.000	AVERAGE
6		22.728	0.803	26.370	27.173	-22.827	50.000	AVERAGE

**Note:**

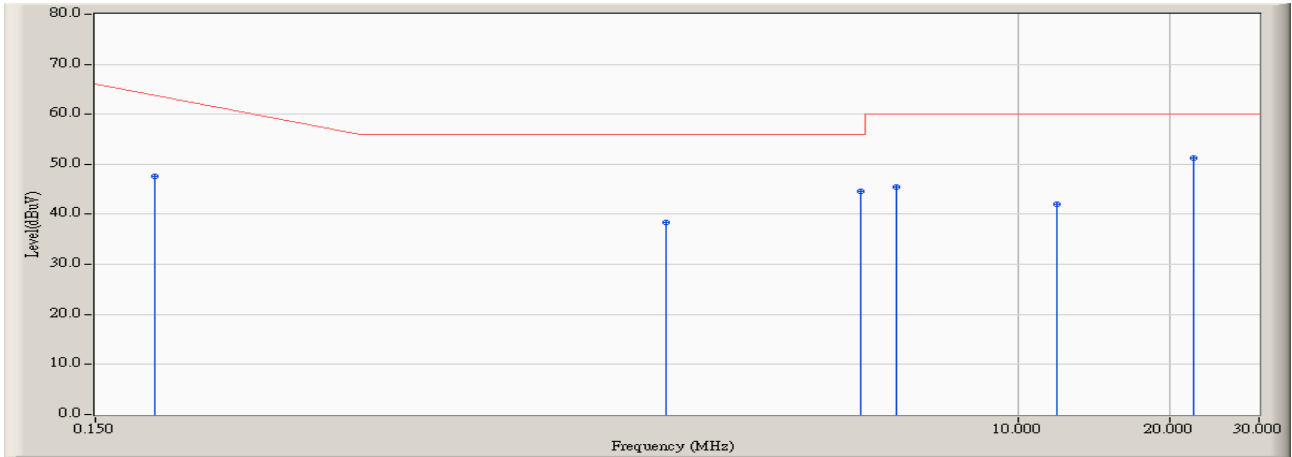
1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Site : SR-1	Time : 2007/04/02 - 15:12
Limit : CISPR_B_00M_QP	Margin : 10
EUT : Motherboard	Probe : LISN-020(L) - Line1
Power : AC 120V/60HZ	Note : Mode 3



Site : SR-1	Time : 2007/04/02 - 15:14
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Motherboard	Probe : LISN-020(L) - Line1
Power : AC 120V/60HZ	Note : Mode 3

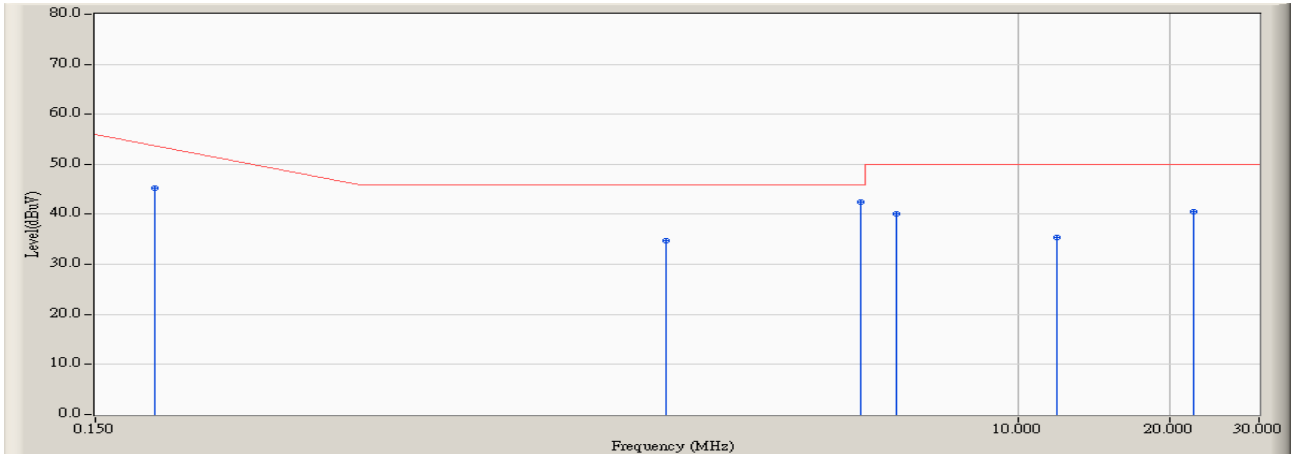


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.197	0.202	47.410	47.612	-17.045	64.657	QUASPEAK
2		2.017	0.276	38.060	38.336	-17.664	56.000	QUASPEAK
3		4.880	0.395	44.140	44.535	-11.465	56.000	QUASPEAK
4		5.763	0.436	44.960	45.396	-14.604	60.000	QUASPEAK
5		11.935	0.729	41.210	41.939	-18.061	60.000	QUASPEAK
6	*	22.295	1.037	50.290	51.327	-8.673	60.000	QUASPEAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2007/04/02 - 15:14
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Motherboard	Probe : LISN-020(L) - Line1
Power : AC 120V/60HZ	Note : Mode 3

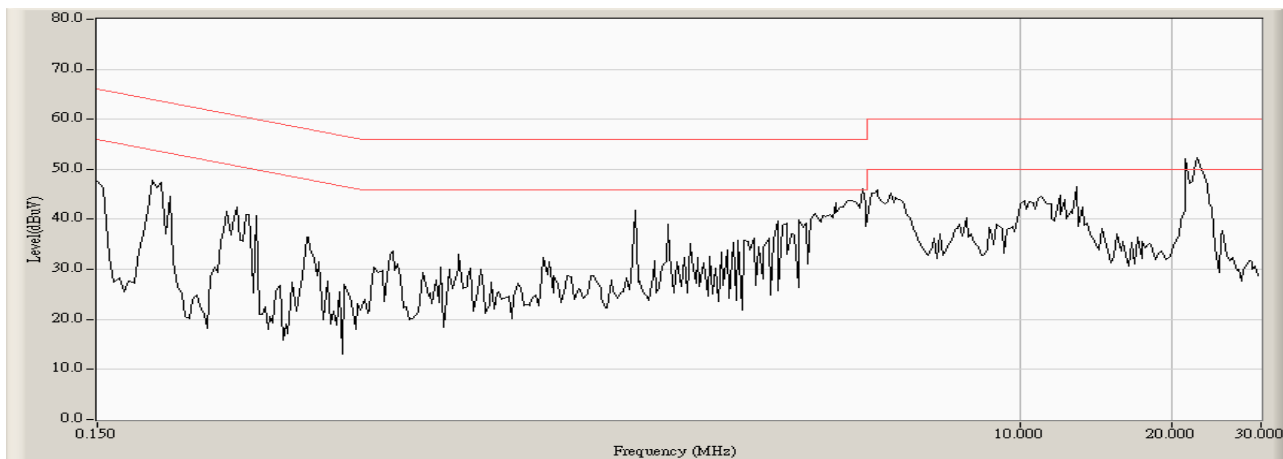


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.197	0.202	44.990	45.192	-9.465	54.657	AVERAGE
2		2.017	0.276	34.550	34.826	-11.174	46.000	AVERAGE
3	*	4.880	0.395	41.980	42.375	-3.625	46.000	AVERAGE
4		5.763	0.436	39.760	40.196	-9.804	50.000	AVERAGE
5		11.935	0.729	34.660	35.389	-14.611	50.000	AVERAGE
6		22.295	1.037	39.420	40.457	-9.543	50.000	AVERAGE

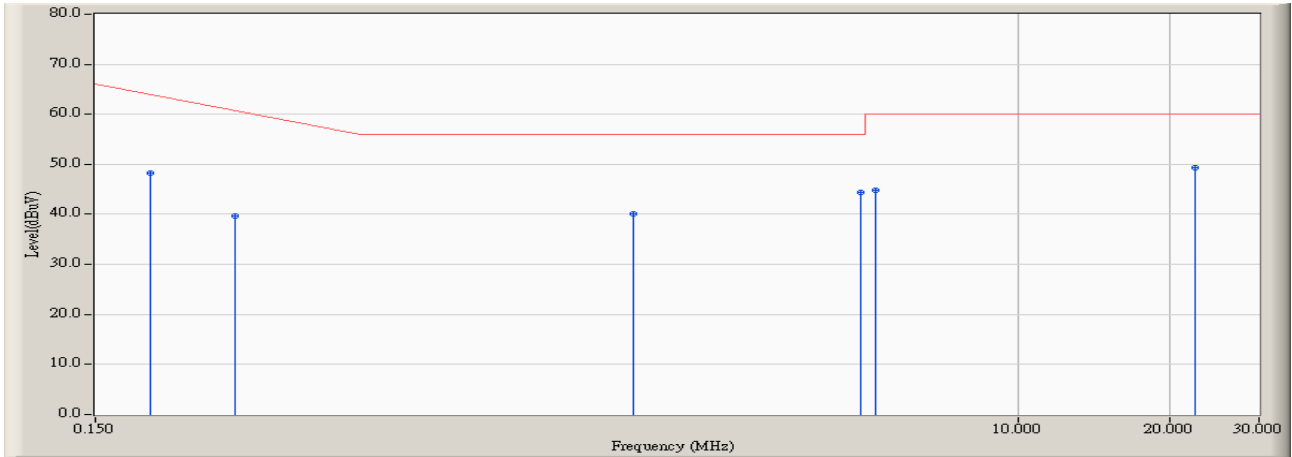
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2007/04/02 - 15:15
Limit : CISPR_B_00M_QP	Margin : 10
EUT : Motherboard	Probe : LISN-020(N) - Line2
Power : AC 120V/60HZ	Note : Mode 3



Site : SR-1	Time : 2007/04/02 - 15:16
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Motherboard	Probe : LISN-020(N) - Line2
Power : AC 120V/60HZ	Note : Mode 3

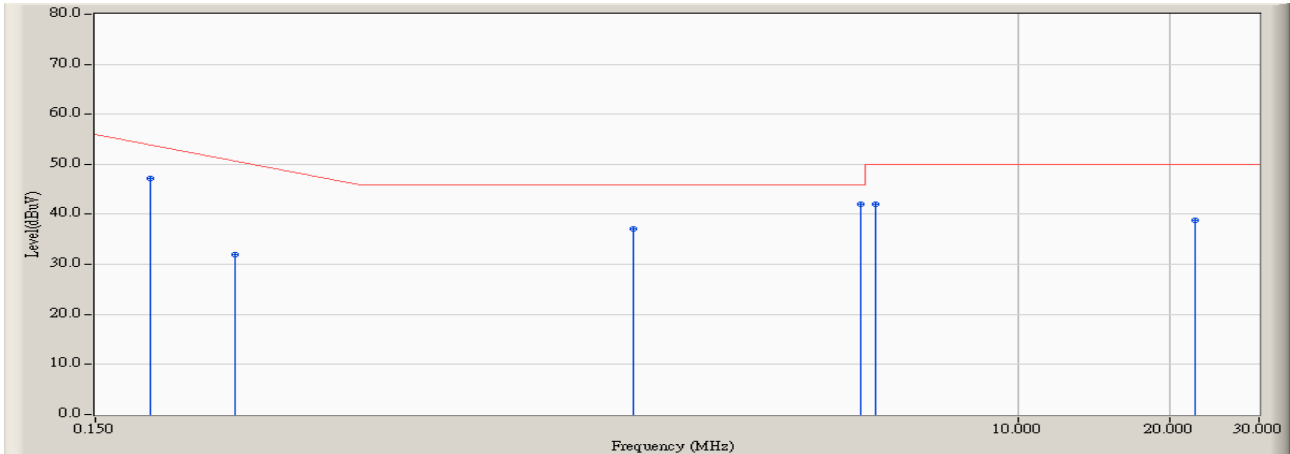


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.193	0.202	48.010	48.212	-16.559	64.771	QUASIPeAK
2		0.283	0.204	39.390	39.595	-22.605	62.200	QUASIPeAK
3		1.732	0.263	39.740	40.003	-15.997	56.000	QUASIPeAK
4		4.880	0.375	44.000	44.375	-11.625	56.000	QUASIPeAK
5		5.220	0.389	44.470	44.859	-15.141	60.000	QUASIPeAK
6	*	22.498	0.800	48.450	49.250	-10.750	60.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2007/04/02 - 15:16
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Motherboard	Probe : LISN-020(N) - Line2
Power : AC 120V/60HZ	Note : Mode 3



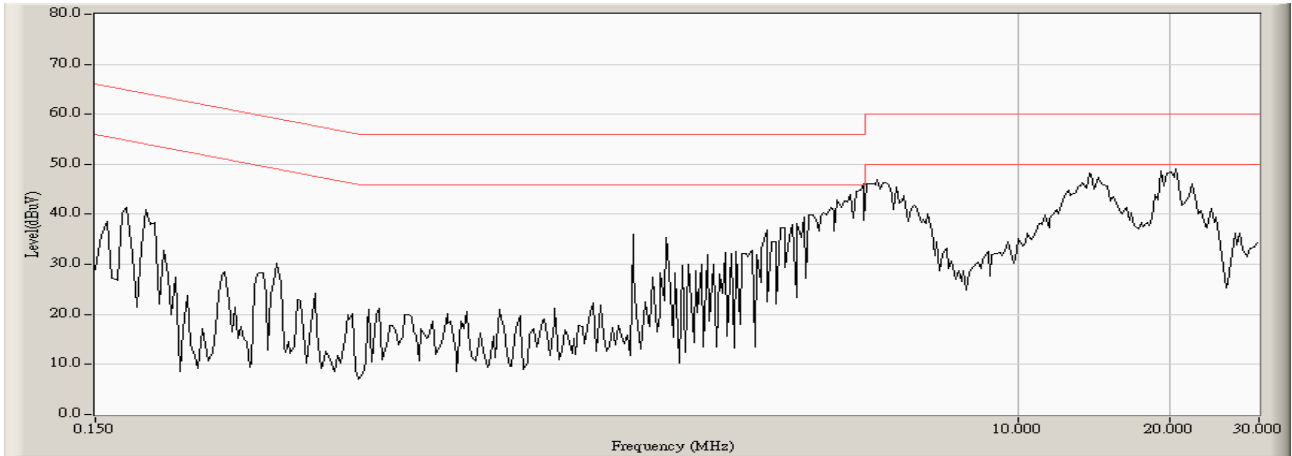
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.193	0.202	46.990	47.192	-7.579	54.771	AVERAGE
2		0.283	0.204	31.770	31.975	-20.225	52.200	AVERAGE
3		1.732	0.263	36.870	37.133	-8.867	46.000	AVERAGE
4	*	4.880	0.375	41.570	41.945	-4.055	46.000	AVERAGE
5		5.220	0.389	41.730	42.119	-7.881	50.000	AVERAGE
6		22.498	0.800	37.950	38.750	-11.250	50.000	AVERAGE

**Note:**

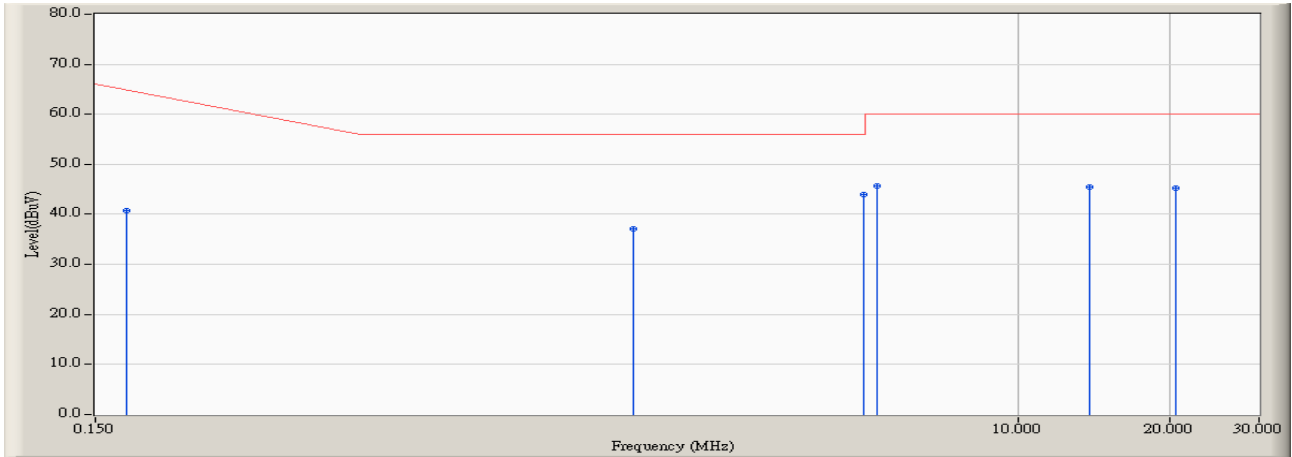
1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

**3.6.**

Site : SR-1	Time : 2007/04/02 - 16:58
Limit : CISPR_B_00M_QP	Margin : 10
EUT : Motherboard	Probe : LISN-020(L) - Line1
Power : AC 120V/60HZ	Note : Mode 7



Site : SR-1	Time : 2007/04/02 - 17:00
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Motherboard	Probe : LISN-020(L) - Line1
Power : AC 120V/60HZ	Note : Mode 7



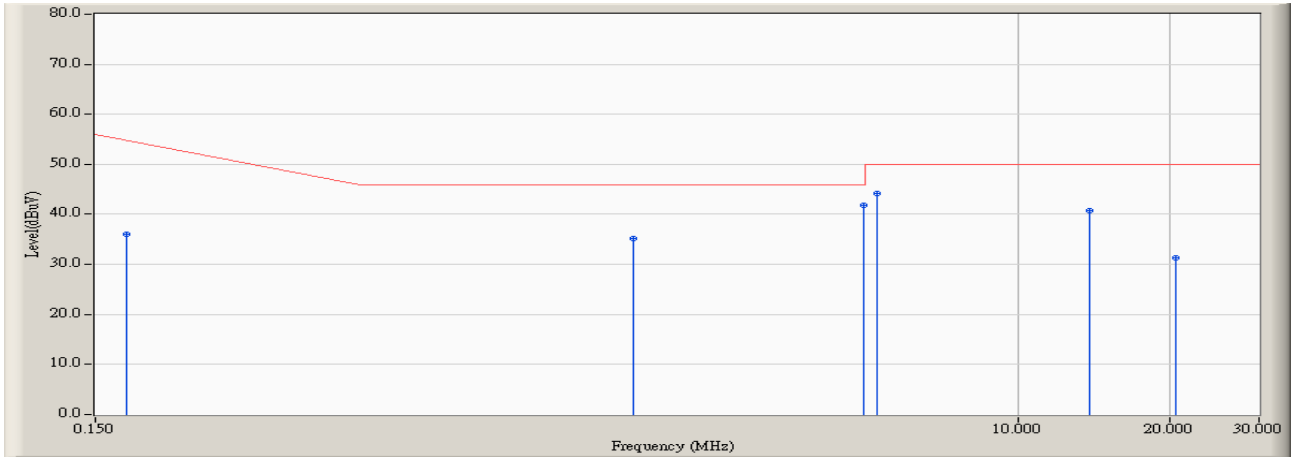
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.173	0.202	40.650	40.852	-24.491	65.343	QUASIPeAK
2		1.732	0.263	36.900	37.163	-18.837	56.000	QUASIPeAK
3	*	4.947	0.396	43.640	44.036	-11.964	56.000	QUASIPeAK
4		5.287	0.410	45.340	45.750	-14.250	60.000	QUASIPeAK
5		13.826	0.834	44.630	45.464	-14.536	60.000	QUASIPeAK
6		20.525	0.984	44.250	45.234	-14.766	60.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Site : SR-1	Time : 2007/04/02 - 17:00
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Motherboard	Probe : LISN-020(L) - Line1
Power : AC 120V/60HZ	Note : Mode 7

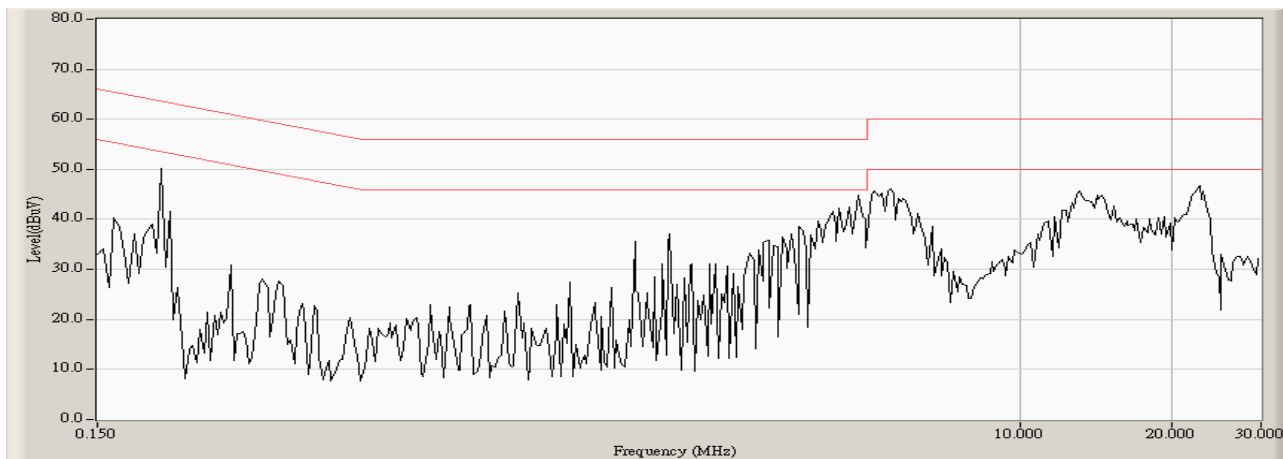


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.173	0.202	35.740	35.942	-19.401	55.343	AVERAGE
2		1.732	0.263	34.930	35.193	-10.807	46.000	AVERAGE
3	*	4.947	0.396	41.360	41.756	-4.244	46.000	AVERAGE
4		5.287	0.410	43.700	44.110	-5.890	50.000	AVERAGE
5		13.826	0.834	39.920	40.754	-9.246	50.000	AVERAGE
6		20.525	0.984	30.380	31.364	-18.636	50.000	AVERAGE

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2007/04/02 - 17:00
Limit : CISPR_B_00M_QP	Margin : 10
EUT : Motherboard	Probe : LISN-020(N) - Line2
Power : AC 120V/60HZ	Note : Mode 7



Site : SR-1	Time : 2007/04/02 - 17:02
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Motherboard	Probe : LISN-020(N) - Line2
Power : AC 120V/60HZ	Note : Mode 7

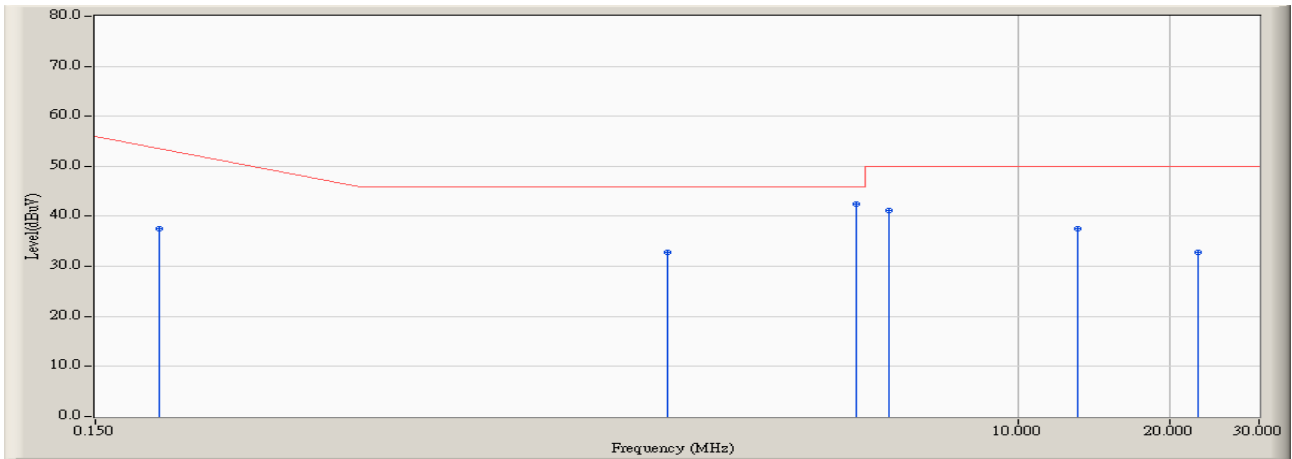


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.201	0.202	47.450	47.652	-16.891	64.543	QUASIPeAK
2		2.025	0.277	33.010	33.287	-22.713	56.000	QUASIPeAK
3	*	4.810	0.374	43.400	43.774	-12.226	56.000	QUASIPeAK
4		5.560	0.404	43.520	43.924	-16.076	60.000	QUASIPeAK
5		13.150	0.705	42.890	43.595	-16.405	60.000	QUASIPeAK
6		22.697	0.803	42.050	42.853	-17.147	60.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR-1	Time : 2007/04/02 - 17:02
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Motherboard	Probe : LISN-020(N) - Line2
Power : AC 120V/60HZ	Note : Mode 7



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.201	0.202	37.350	37.552	-16.991	54.543	AVERAGE
2		2.025	0.277	32.440	32.717	-13.283	46.000	AVERAGE
3	*	4.810	0.374	42.010	42.384	-3.616	46.000	AVERAGE
4		5.560	0.404	40.790	41.194	-8.806	50.000	AVERAGE
5		13.150	0.705	36.880	37.585	-12.415	50.000	AVERAGE
6		22.697	0.803	32.050	32.853	-17.147	50.000	AVERAGE

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

### 3.7. Test Photograph

Test Mode : Mode 1: GA-G33-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1920\*1440/85Hz),Case Close

Description : Front View of Conducted Test



Test Mode : Mode 1: GA-G33-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1920\*1440/85Hz),Case Close

Description : Back View of Conducted Test



Test Mode : Mode 2: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.73GHz/266MHz,D-SUB(1600\*1200/85Hz),Case Close

Description : Front View of Conducted Test



Test Mode : Mode 2: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.73GHz/266MHz,D-SUB(1600\*1200/85Hz),Case Close

Description : Back View of Conducted Test



Test Mode : Mode 3: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.80GHz/200MHz,D-SUB(1024\*768/75Hz),Case Close

Description : Front View of Conducted Test



Test Mode : Mode 3: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.80GHz/200MHz,D-SUB(1024\*768/75Hz),Case Close

Description : Back View of Conducted Test



Test Mode : Mode 7: GA-P35-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1024\*768/75Hz),Case Close

Description : Front View of Conducted Test



Test Mode : Mode 7: GA-P35-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1024\*768/75Hz),Case Close

Description : Back View of Conducted Test





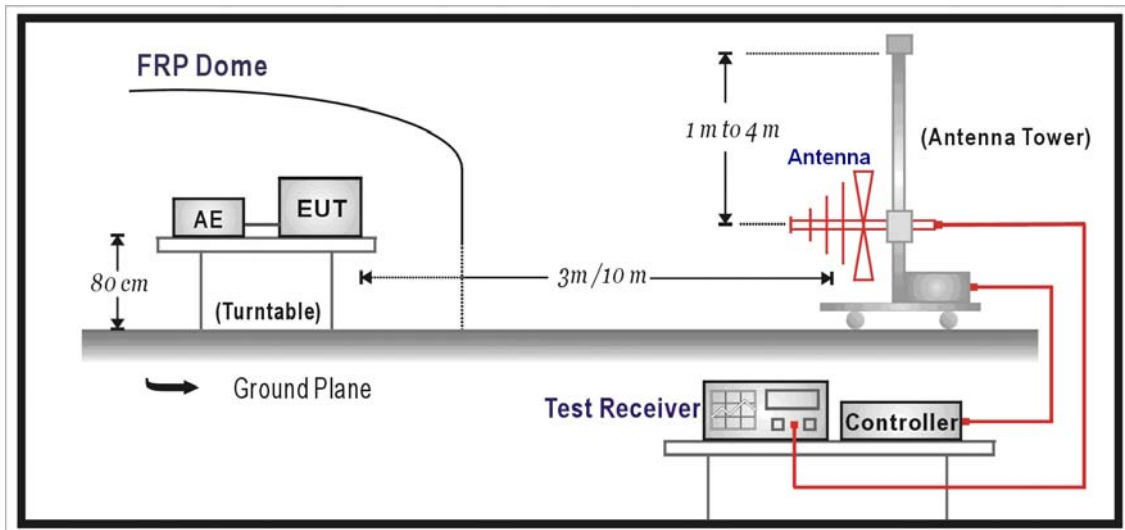
**4. Radiated Emission**

**4.1. Test Specification**

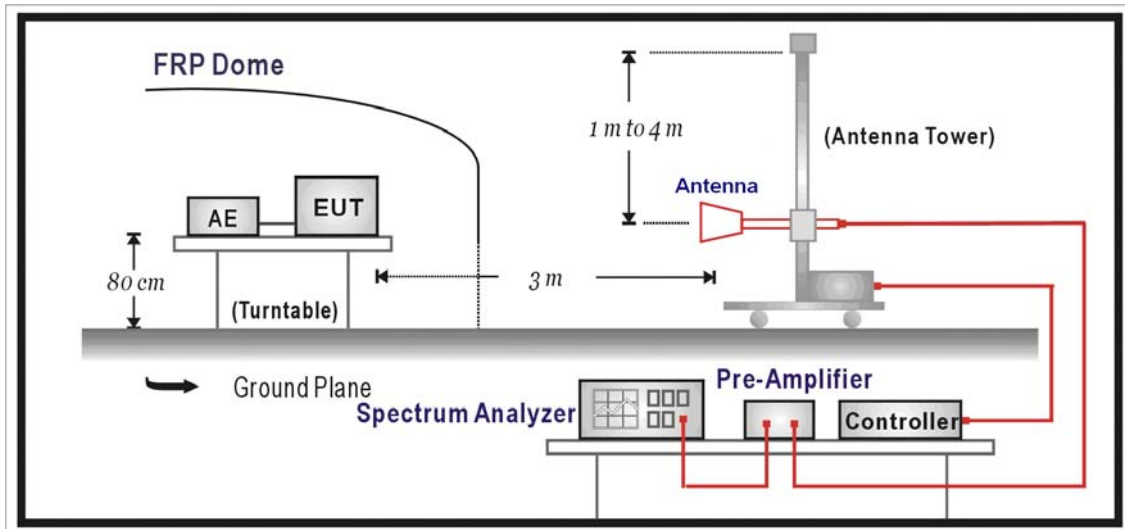
According to EMC Standard : FCC Part 15 Subpart B, ANSI C63.4

**4.2. Test Setup**

Under 1GHz Test Setup:



Above 1GHz Test Setup:



**4.3. Limit**

Under 1GHz test shall not exceed the following value:

Limits		
Frequency (MHz)	Distance (m)	dBuV/m
30 – 230	10	30
230 – 1000	10	37

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Above 1GHz test shall not exceed the following value:

FCC Part 15 Subpart B Paragraph 15.109 Limits (dBuV/m)		
Frequency (MHz)	Distance (m)	dBuV/m
30-88	3	40
88-216	3	43.5
216-960	3	46
Above 960	3	54

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

**4.4. Test Procedure**

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground.

The turn table can rotate 360 degrees to determine the position of the maximum emission level and the antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower

On any frequency or frequencies below or equal to 1000 MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000 MHz, the radiated limits shown are based measuring equipment employing an average detector function.

When average radiated emission measurement are included emission measurement Above 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

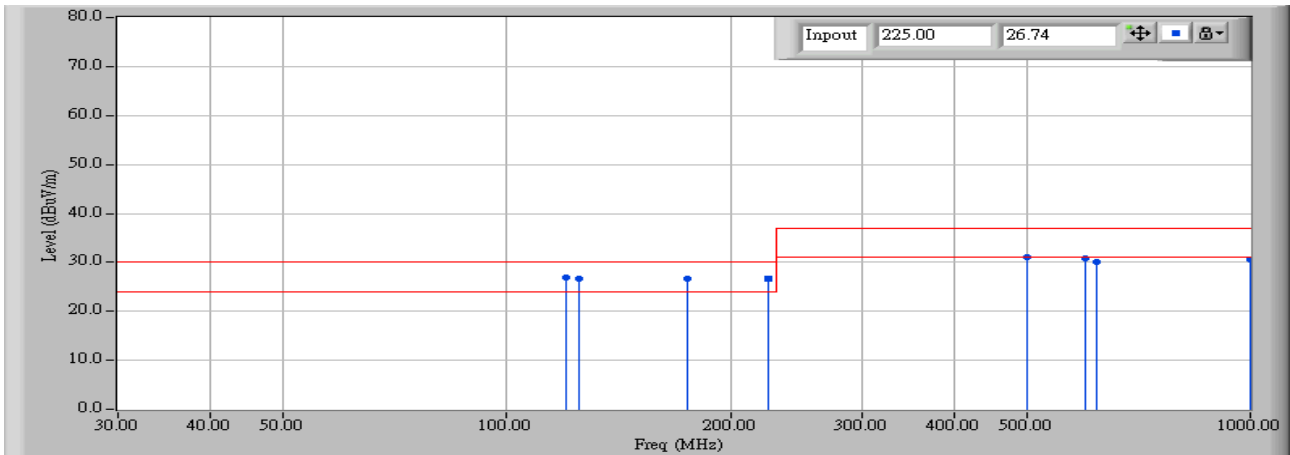
For class A, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and above 1GHz.

For class B, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and 3 meters for above 1GHz.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30) is 120 kHz and above 1GHz is 1MHz.

## 4.5. Test Result

Site : OATS-3	Time : 2007/04/03 - 15:41
Limit : CISPR_B_10M_QP	Margin : 6
EUT : Motherboard	Probe : CBL6112B-(2921) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1

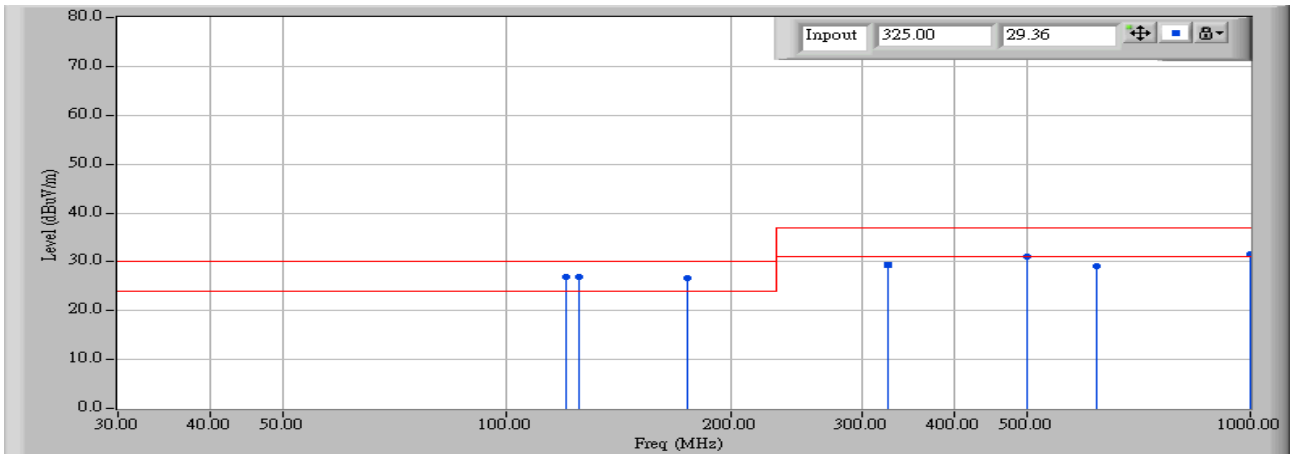


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	120.000	14.866	12.100	26.966	-3.034	30.000	QUASPEAK
2		125.000	14.741	12.000	26.741	-3.259	30.000	QUASPEAK
3		175.000	12.266	14.480	26.746	-3.254	30.000	QUASPEAK
4		225.000	14.092	12.650	26.742	-3.258	30.000	QUASPEAK
5		500.016	21.906	9.100	31.006	-5.994	37.000	QUASPEAK
6		600.150	23.468	7.390	30.858	-6.142	37.000	QUASPEAK
7		620.715	23.690	6.510	30.200	-6.800	37.000	QUASPEAK
8		1000.000	29.050	1.600	30.650	-6.350	37.000	QUASPEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/03 - 15:32
Limit : CISPR_B_10M_QP	Margin : 6
EUT : Motherboard	Probe : CBL6112B-(2921) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1

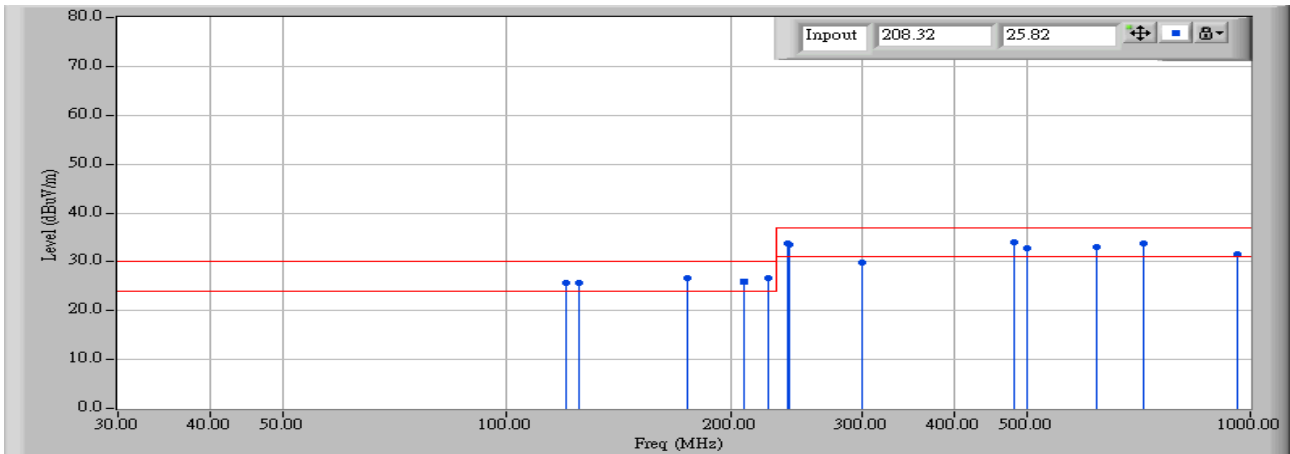


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	120.000	14.866	12.100	26.966	-3.034	30.000	QUASPEAK
2		125.002	14.741	12.170	26.911	-3.089	30.000	QUASPEAK
3		175.000	12.266	14.480	26.746	-3.254	30.000	QUASPEAK
4		325.000	17.833	11.530	29.364	-7.636	37.000	QUASPEAK
5		500.015	21.906	9.220	31.126	-5.874	37.000	QUASPEAK
6		620.721	23.690	5.330	29.020	-7.980	37.000	QUASPEAK
7		1000.000	29.050	2.600	31.650	-5.350	37.000	QUASPEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/03 - 17:35
Limit : CISPR_B_10M_QP	Margin : 6
EUT : Motherboard	Probe : LKANT_S2_2006_01 - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2

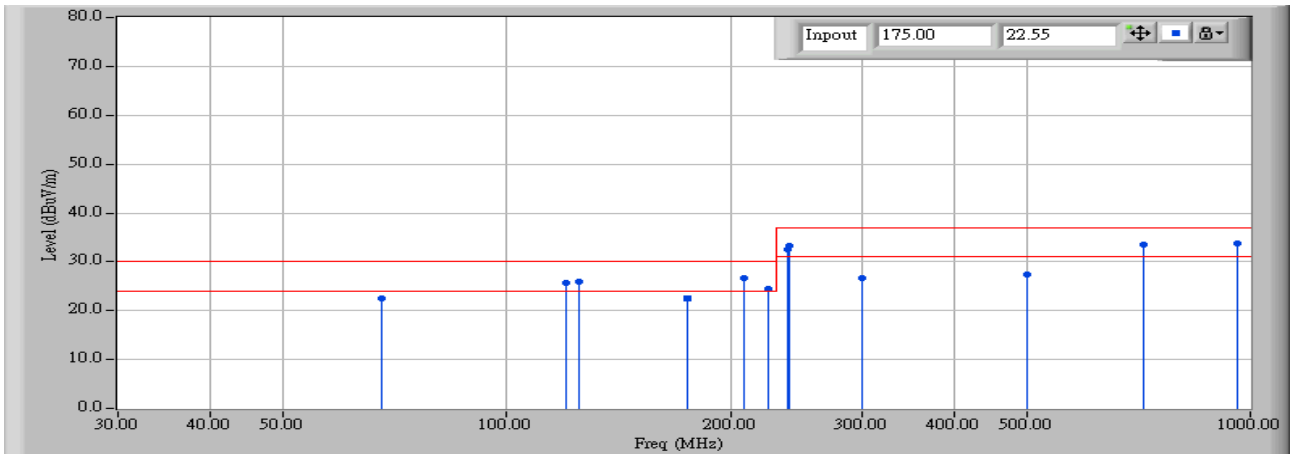


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	120.026	13.603	12.100	25.703	-4.297	30.000	QUASPEAK
2	125.000	13.787	12.000	25.787	-4.213	30.000	QUASPEAK
3	175.000	11.353	15.430	26.783	-3.217	30.000	QUASPEAK
4	208.321	11.617	14.200	25.817	-4.183	30.000	QUASPEAK
5	225.000	12.047	14.540	26.588	-3.412	30.000	QUASPEAK
6	238.080	13.875	19.780	33.655	-3.345	37.000	QUASPEAK
7	240.000	14.124	19.460	33.584	-3.416	37.000	QUASPEAK
8	300.079	16.711	13.120	29.831	-7.169	37.000	QUASPEAK
9	* 480.117	22.075	11.900	33.975	-3.025	37.000	QUASPEAK
10	500.011	22.308	10.380	32.688	-4.312	37.000	QUASPEAK
11	619.956	24.605	8.330	32.935	-4.065	37.000	QUASPEAK
12	720.000	25.923	7.800	33.723	-3.277	37.000	QUASPEAK
13	960.241	28.732	2.900	31.632	-5.368	37.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/03 - 17:36
Limit : CISPR_B_10M_QP	Margin : 6
EUT : Motherboard	Probe : LKANT_S2_2006_01 - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2

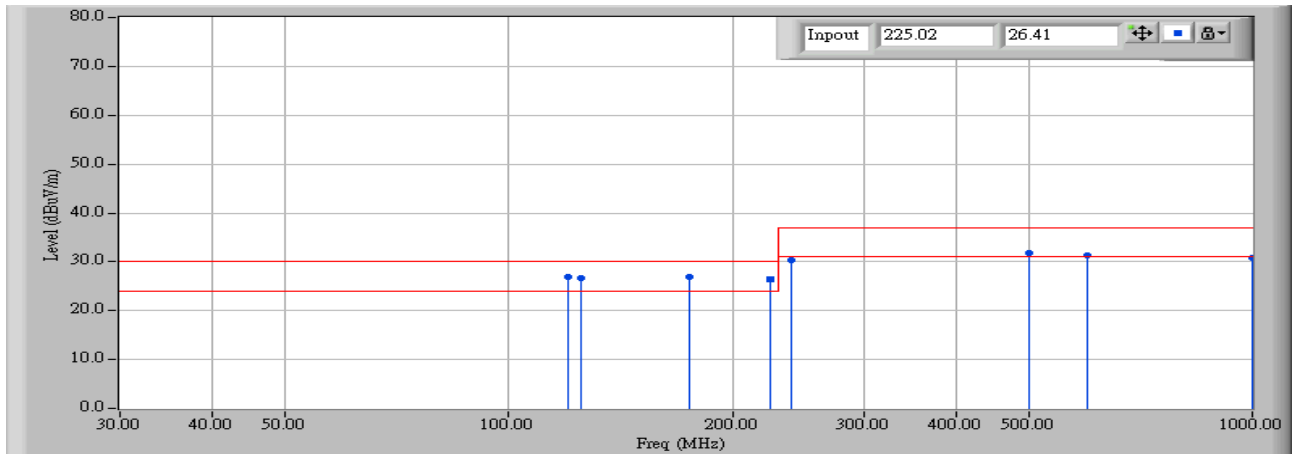


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	67.820	6.608	16.020	22.628	-7.372	30.000	QUASPEAK
2	120.030	13.603	12.100	25.703	-4.297	30.000	QUASPEAK
3	125.000	13.787	12.100	25.887	-4.113	30.000	QUASPEAK
4	175.000	11.353	11.200	22.553	-7.447	30.000	QUASPEAK
5	208.320	11.617	15.120	26.737	-3.263	30.000	QUASPEAK
6	225.000	12.047	12.340	24.388	-5.612	30.000	QUASPEAK
7	238.080	13.875	18.780	32.655	-4.345	37.000	QUASPEAK
8	240.000	14.124	19.040	33.164	-3.836	37.000	QUASPEAK
9	300.000	16.708	10.000	26.707	-10.293	37.000	QUASPEAK
10	500.015	22.308	5.110	27.418	-9.582	37.000	QUASPEAK
11	720.000	25.923	7.500	33.423	-3.577	37.000	QUASPEAK
12	* 960.235	28.732	5.090	33.822	-3.178	37.000	QUASPEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/03 - 17:44
Limit : CISPR_B_10M_QP	Margin : 6
EUT : Motherboard	Probe : LKANT_S2_2006_01 - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3



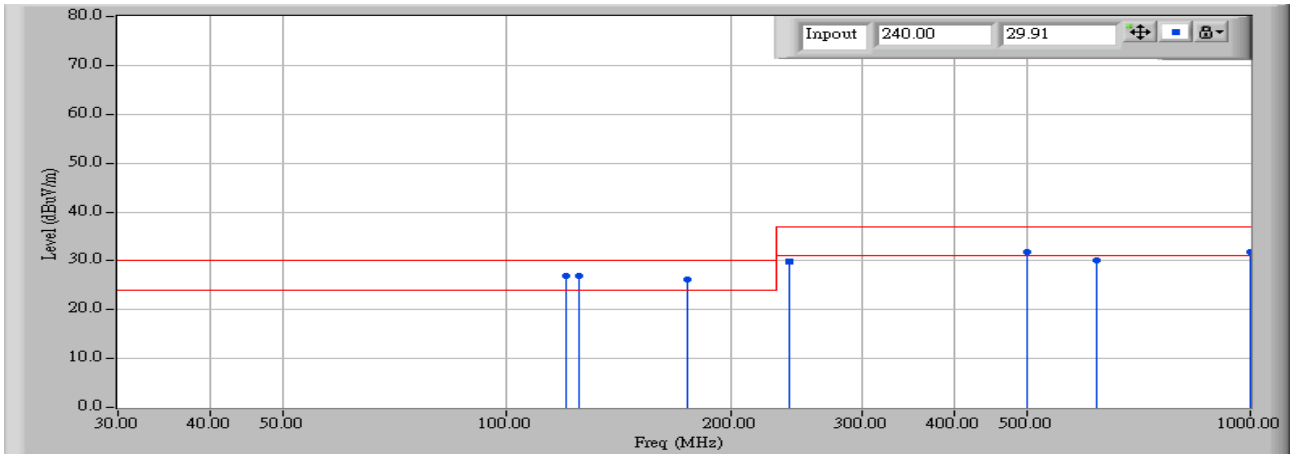
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	120.000	14.866	12.100	26.966	-3.034	30.000	QUASPEAK
2		125.000	14.741	12.000	26.741	-3.259	30.000	QUASPEAK
3		175.000	12.266	14.600	26.866	-3.134	30.000	QUASPEAK
4		225.020	14.094	12.320	26.414	-3.586	30.000	QUASPEAK
5		240.000	15.210	15.100	30.310	-6.690	37.000	QUASPEAK
6		500.012	21.905	9.800	31.705	-5.295	37.000	QUASPEAK
7		600.150	23.468	7.740	31.208	-5.792	37.000	QUASPEAK
8		1000.000	29.050	1.830	30.880	-6.120	37.000	QUASPEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Site : OATS-3	Time : 2007/04/03 - 17:45
Limit : CISPR_B_10M_QP	Margin : 6
EUT : Motherboard	Probe : LKANT_S2_2006_01 - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3

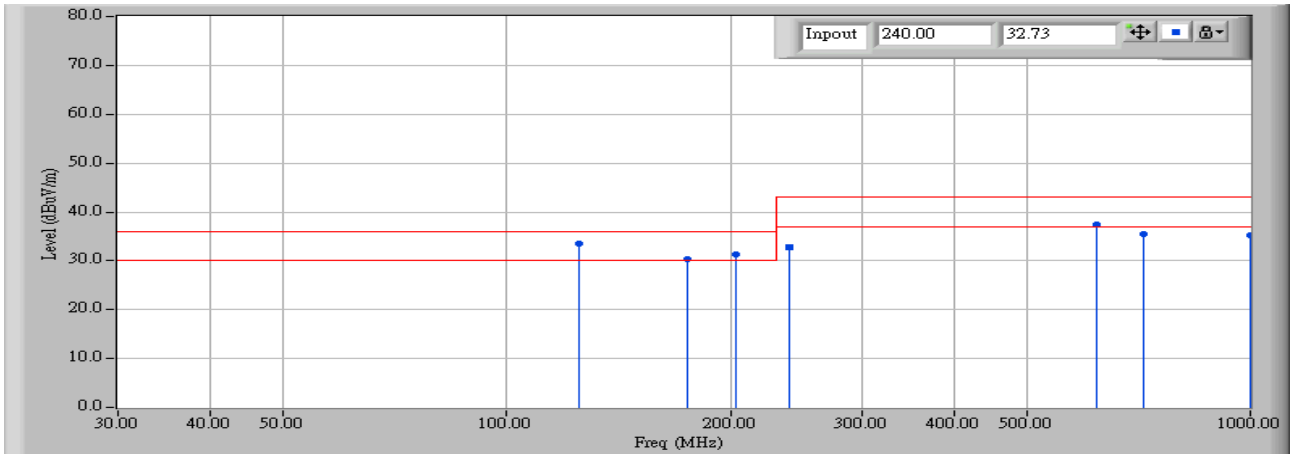


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	120.000	14.866	12.100	26.966	-3.034	30.000	QUASPEAK
2		125.002	14.741	12.170	26.911	-3.089	30.000	QUASPEAK
3		175.000	12.266	14.000	26.266	-3.734	30.000	QUASPEAK
4		240.000	15.210	14.700	29.910	-7.090	37.000	QUASPEAK
5		500.020	21.906	9.900	31.806	-5.194	37.000	QUASPEAK
6		620.680	23.689	6.360	30.049	-6.951	37.000	QUASPEAK
7		1000.000	29.050	2.800	31.850	-5.150	37.000	QUASPEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/03 - 15:06
Limit : CNS13438_B_Open_10M_QP	Margin : 6
EUT : Motherboard	Probe : CBL6112B-(2921) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4

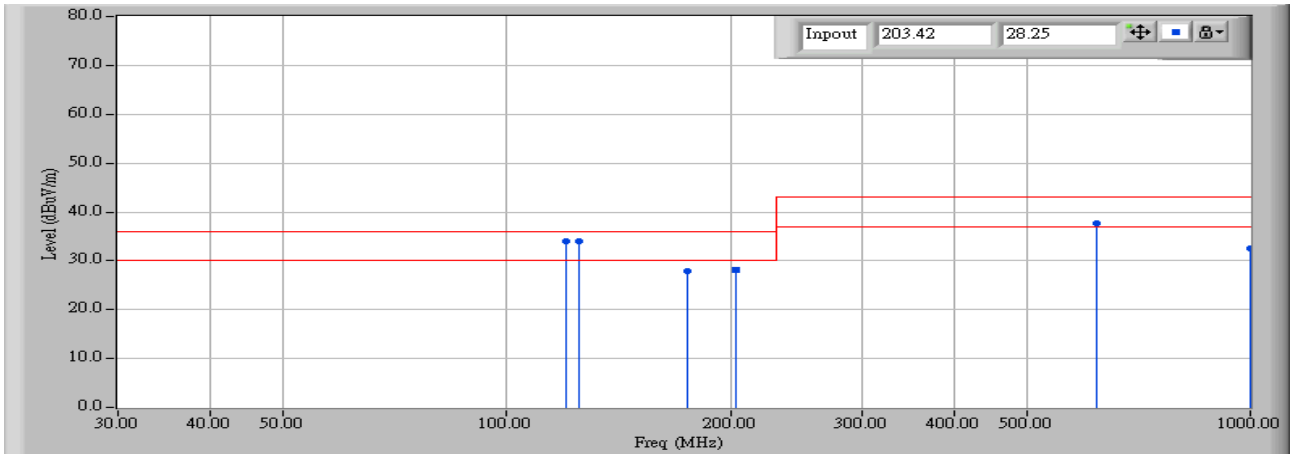


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	125.000	14.741	18.870	33.611	-2.389	36.000	QUASPEAK
2		175.000	12.266	18.140	30.406	-5.594	36.000	QUASPEAK
3		203.420	12.475	18.750	31.225	-4.775	36.000	QUASPEAK
4		240.000	15.210	17.520	32.730	-10.270	43.000	QUASPEAK
5		620.537	23.688	13.800	37.488	-5.512	43.000	QUASPEAK
6		720.000	24.803	10.750	35.553	-7.447	43.000	QUASPEAK
7		1000.000	29.050	6.300	35.350	-7.650	43.000	QUASPEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/03 - 15:18
Limit : CNS13438_B_Open_10M_QP	Margin : 6
EUT : Motherboard	Probe : CBL6112B-(2921) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4

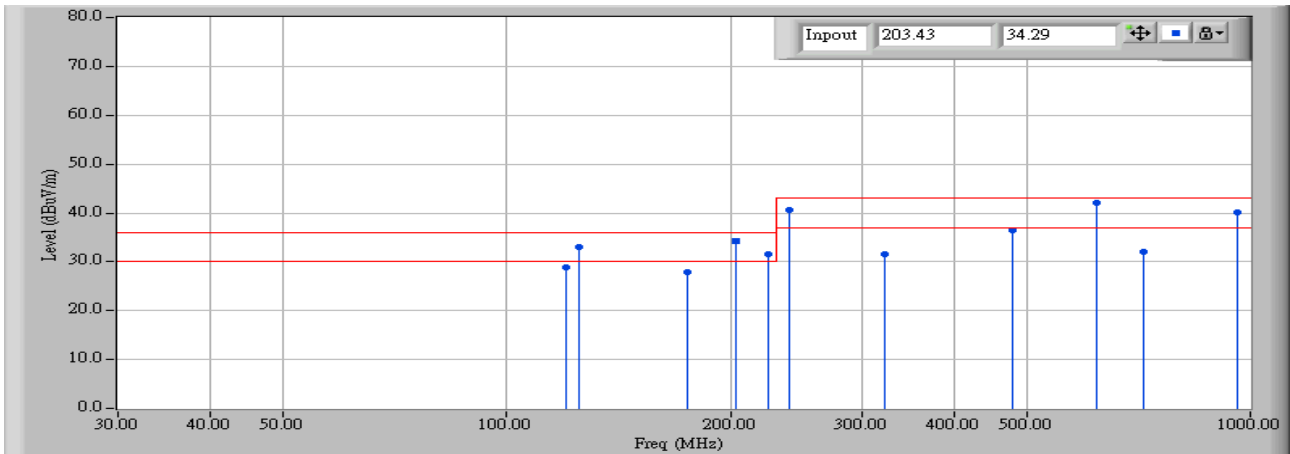


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	120.000	14.866	19.070	33.936	-2.064	36.000	QUASPEAK
2	* 125.000	14.741	19.330	34.071	-1.929	36.000	QUASPEAK
3	175.000	12.266	15.660	27.926	-8.074	36.000	QUASPEAK
4	203.418	12.475	15.780	28.255	-7.745	36.000	QUASPEAK
5	620.670	23.689	13.940	37.629	-5.371	43.000	QUASPEAK
6	1000.000	29.050	3.610	32.660	-10.340	43.000	QUASPEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/03 - 17:38
Limit : CNS13438_B_Open_10M_QP	Margin : 6
EUT : Motherboard	Probe : LKANT_S2_2006_01 - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 5

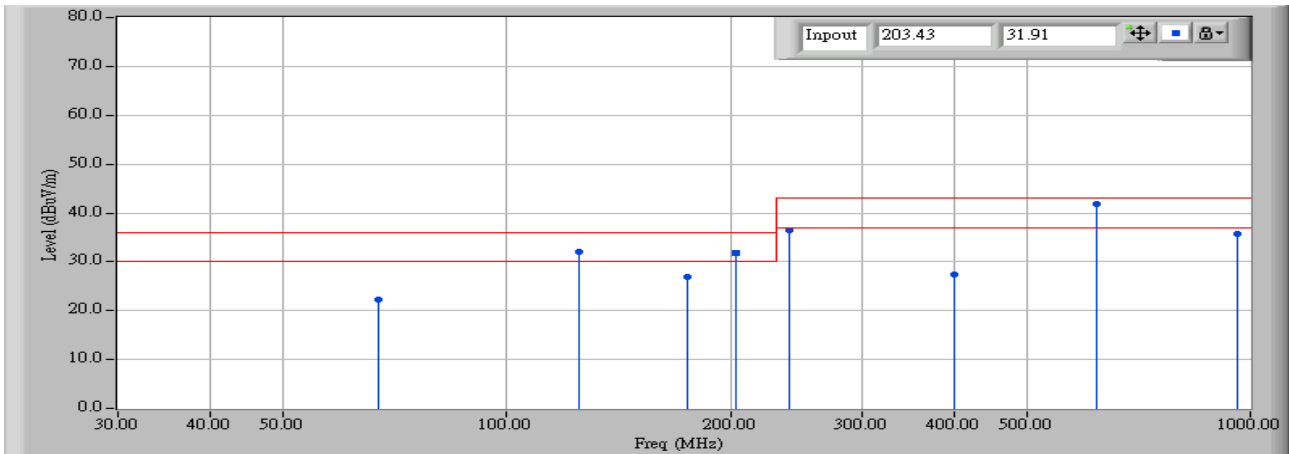


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	120.030	13.603	15.180	28.783	-7.217	36.000	QUASPEAK
2	125.000	13.787	19.340	33.127	-2.873	36.000	QUASPEAK
3	175.000	11.353	16.630	27.983	-8.017	36.000	QUASPEAK
4	203.426	11.658	22.630	34.288	-1.712	36.000	QUASPEAK
5	225.000	12.047	19.410	31.458	-4.542	36.000	QUASPEAK
6	240.000	14.124	26.500	40.624	-2.376	43.000	QUASPEAK
7	322.100	17.521	14.150	31.671	-11.329	43.000	QUASPEAK
8	479.997	22.072	14.360	36.432	-6.568	43.000	QUASPEAK
9	* 619.956	24.605	17.400	42.005	-0.995	43.000	QUASPEAK
10	720.000	25.923	6.110	32.033	-10.967	43.000	QUASPEAK
11	960.239	28.732	11.510	40.242	-2.758	43.000	QUASPEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/03/31 - 05:55
Limit : CNS13438_B_Open_10M_QP	Margin : 6
EUT : Motherboard	Probe : CBL6112B-(2921) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 5

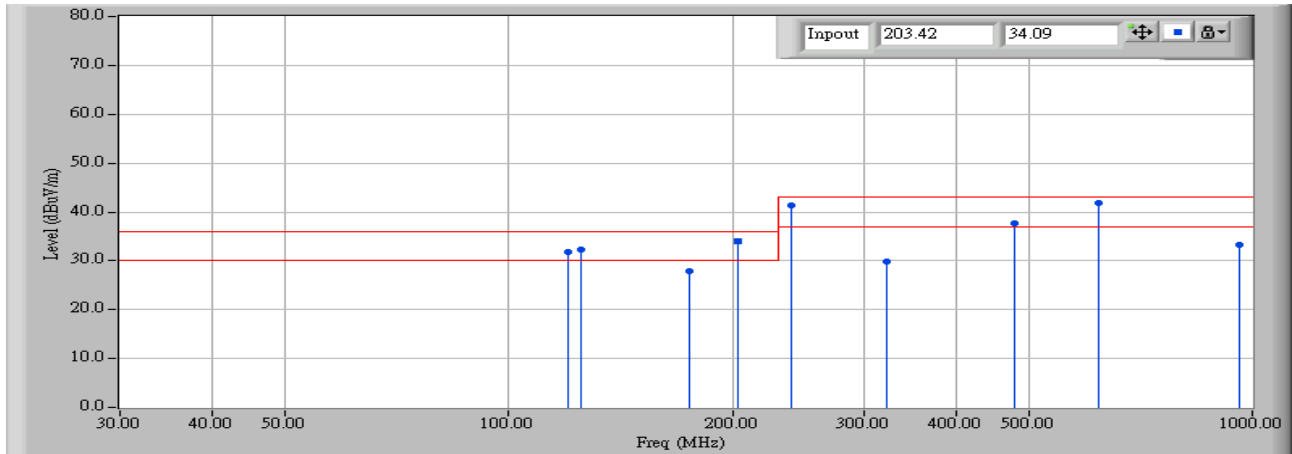


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	67.300	6.573	15.610	22.183	-13.817	36.000	QUASPEAK
2	125.000	13.787	18.370	32.157	-3.843	36.000	QUASPEAK
3	175.000	11.353	15.450	26.803	-9.197	36.000	QUASPEAK
4	203.425	11.658	20.250	31.908	-4.092	36.000	QUASPEAK
5	240.000	14.124	22.300	36.424	-6.576	43.000	QUASPEAK
6	400.000	20.302	7.140	27.442	-15.558	43.000	QUASPEAK
7	* 620.351	24.607	17.180	41.787	-1.213	43.000	QUASPEAK
8	960.249	28.732	6.990	35.722	-7.278	43.000	QUASPEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/03 - 17:40
Limit : CNS13438_B_Open_10M_QP	Margin : 6
EUT : Motherboard	Probe : LKANT_S2_2006_01 - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 6

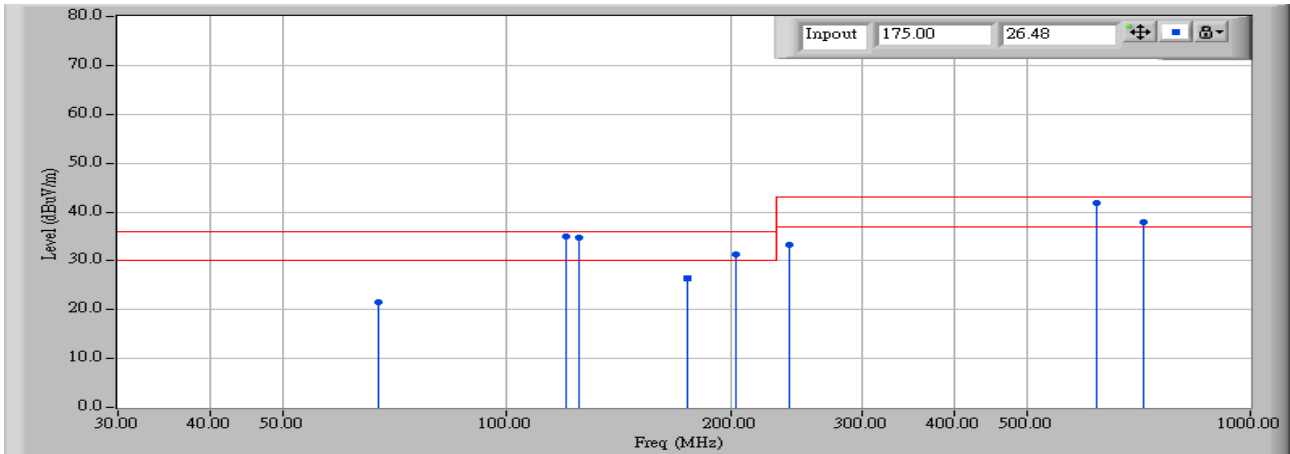


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	120.030	13.603	18.320	31.923	-4.077	36.000	QUASPEAK
2	125.000	13.787	18.430	32.217	-3.783	36.000	QUASPEAK
3	175.000	11.353	16.630	27.983	-8.017	36.000	QUASPEAK
4	203.423	11.658	22.430	34.088	-1.912	36.000	QUASPEAK
5	240.000	14.124	27.210	41.334	-1.666	43.000	QUASPEAK
6	322.087	17.521	12.350	29.871	-13.129	43.000	QUASPEAK
7	480.000	22.072	15.700	37.772	-5.228	43.000	QUASPEAK
8	* 620.429	24.607	17.230	41.837	-1.163	43.000	QUASPEAK
9	960.245	28.732	4.440	33.172	-9.828	43.000	QUASPEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/03 - 17:41
Limit : CNS13438_B_Open_10M_QP	Margin : 6
EUT : Motherboard	Probe : LKANT_S2_2006_01 - VERTICAL
Power : AC 120V/60Hz	Note : Mode 6

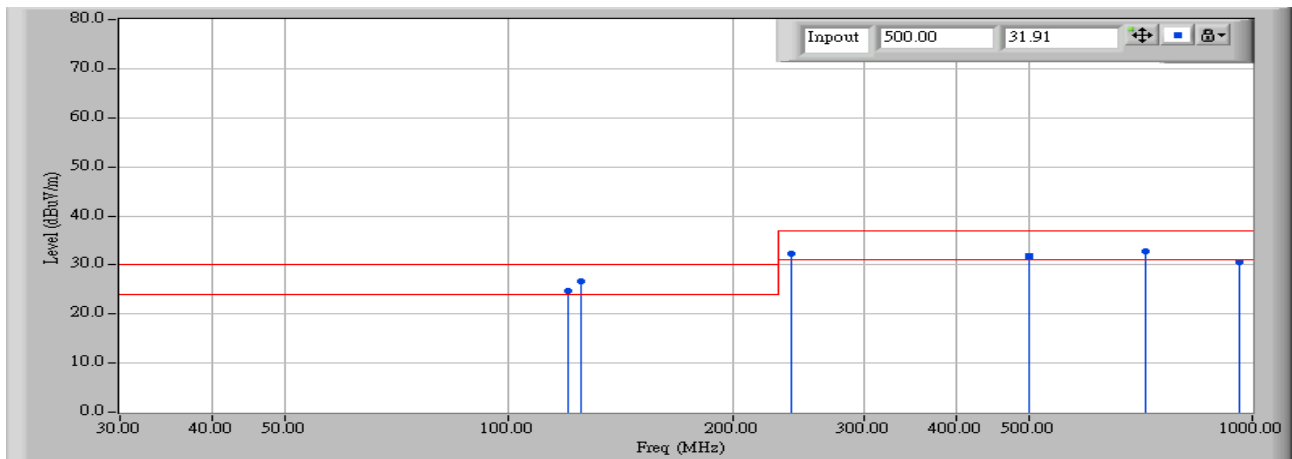


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	67.300	6.573	14.870	21.443	-14.557	36.000	QUASPEAK
2	* 120.030	13.603	21.300	34.903	-1.097	36.000	QUASPEAK
3	125.000	13.787	20.940	34.727	-1.273	36.000	QUASPEAK
4	175.000	11.353	15.130	26.483	-9.517	36.000	QUASPEAK
5	203.424	11.658	19.600	31.258	-4.742	36.000	QUASPEAK
6	240.000	14.124	19.100	33.224	-9.776	43.000	QUASPEAK
7	620.376	24.607	17.110	41.717	-1.283	43.000	QUASPEAK
8	720.000	25.923	11.890	37.813	-5.187	43.000	QUASPEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/09 - 13:45
Limit : CISPR_B_10M_QP	Margin : 6
EUT : Motherboard	Probe : CBL6112B-(2921) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 7



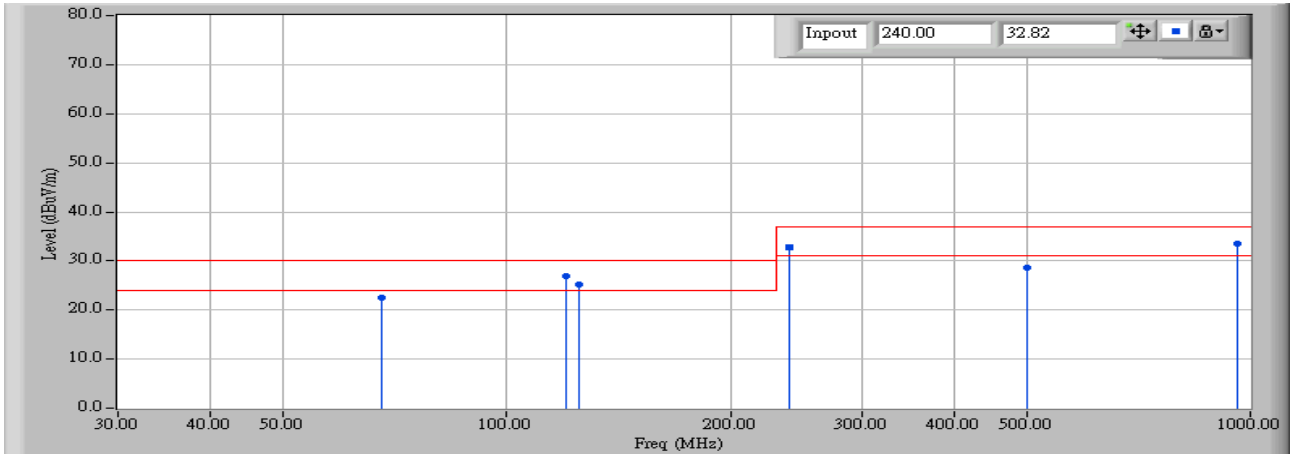
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		120.000	13.602	11.200	24.802	-5.198	30.000	QUASIPeAK
2	*	125.000	13.787	13.000	26.787	-3.213	30.000	QUASIPeAK
3		240.000	14.124	18.200	32.324	-4.676	37.000	QUASIPeAK
4		500.000	22.307	9.600	31.907	-5.093	37.000	QUASIPeAK
5		720.000	25.923	6.900	32.823	-4.177	37.000	QUASIPeAK
6		960.000	28.731	1.900	30.631	-6.369	37.000	QUASIPeAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Site : OATS-3	Time : 2007/04/09 - 13:44
Limit : CISPR_B_10M_QP	Margin : 6
EUT : Motherboard	Probe : CBL6112B-(2921) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 7

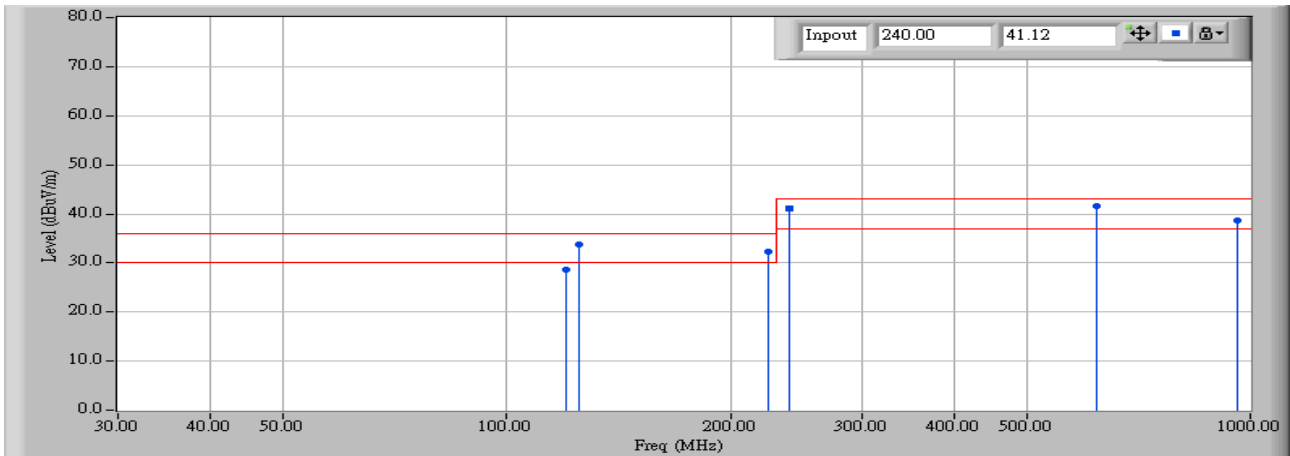


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	67.810	6.607	15.800	22.407	-7.593	30.000	QUASIPeAK
2	* 120.000	13.602	13.200	26.802	-3.198	30.000	QUASIPeAK
3	125.000	13.787	11.300	25.087	-4.913	30.000	QUASIPeAK
4	240.000	14.124	18.700	32.824	-4.176	37.000	QUASIPeAK
5	500.000	22.307	6.300	28.607	-8.393	37.000	QUASIPeAK
6	960.000	28.731	4.900	33.631	-3.369	37.000	QUASIPeAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/09 - 13:48
Limit : CNS13438_B_Open_10M_QP	Margin : 6
EUT : Motherboard	Probe : CBL6112B-(2921) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 10

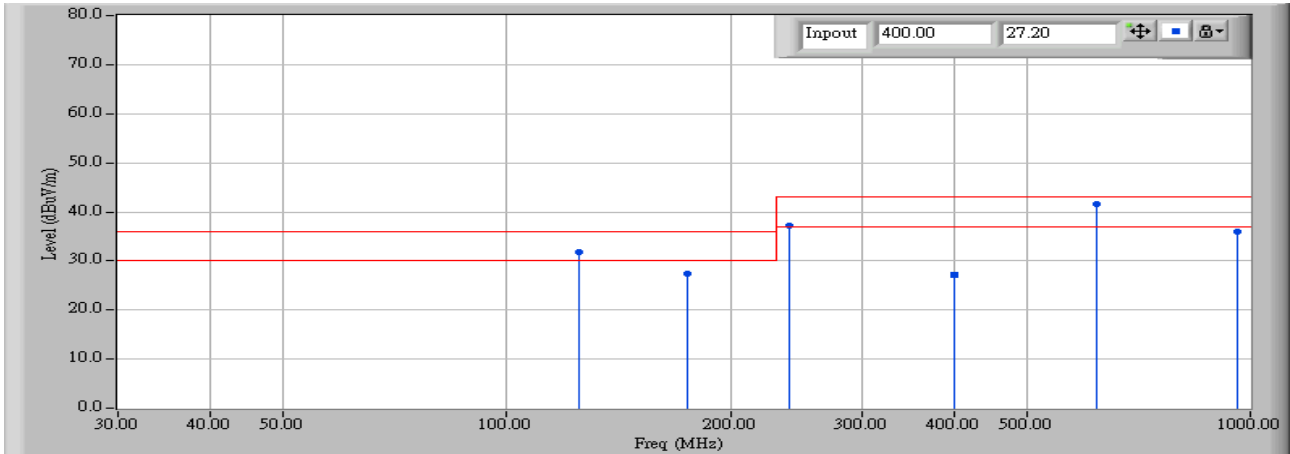


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		120.000	13.602	15.000	28.602	-7.398	36.000	QUASIPeAK
2		125.000	13.787	20.000	33.787	-2.213	36.000	QUASIPeAK
3		225.000	12.047	20.300	32.348	-3.652	36.000	QUASIPeAK
4		240.000	14.124	27.000	41.124	-1.876	43.000	QUASIPeAK
5	*	619.988	24.605	16.900	41.505	-1.495	43.000	QUASIPeAK
6		960.000	28.731	10.000	38.731	-4.269	43.000	QUASIPeAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/09 - 13:46
Limit : CNS13438_B_Open_10M_QP	Margin : 6
EUT : Motherboard	Probe : CBL6112B-(2921) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 10

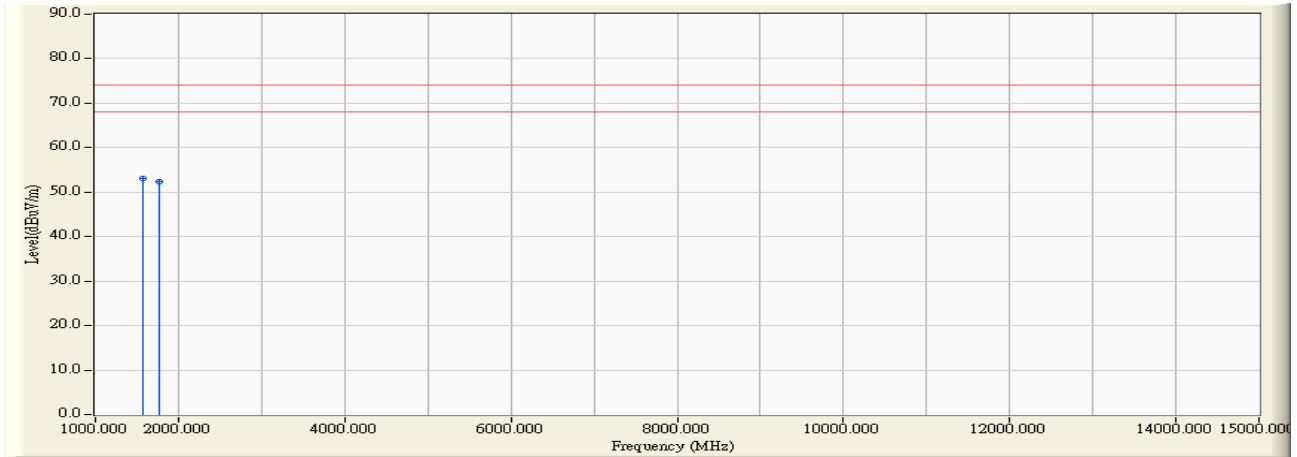


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		125.000	13.787	18.100	31.887	-4.113	36.000	QUASIPeAK
2		175.000	11.353	16.000	27.353	-8.647	36.000	QUASIPeAK
3		240.000	14.124	23.000	37.124	-5.876	43.000	QUASIPeAK
4		400.000	20.302	6.900	27.202	-15.798	43.000	QUASIPeAK
5	*	620.355	24.607	17.000	41.607	-1.393	43.000	QUASIPeAK
6		960.000	28.731	7.200	35.931	-7.069	43.000	QUASIPeAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/13 - 01:07
Limit : FCC_B_(Above_1G)_03M_PK	Margin : 6
EUT : Motherboard	Probe : 9120D_1-18G_Horn - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1

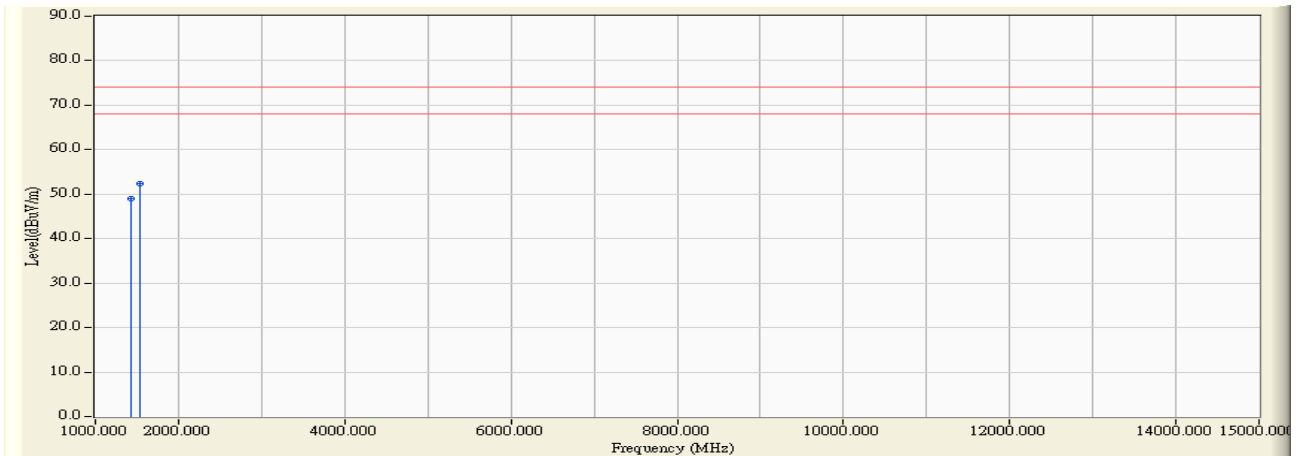


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1565.130	-5.013	58.020	53.007	-20.993	74.000	PEAK
2		1765.530	-4.782	57.220	52.438	-21.562	74.000	PEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/13 - 01:08
Limit : FCC_B_(Above_1G)_03M_PK	Margin : 6
EUT : Motherboard	Probe : 9120D_1-18G_Horn - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1

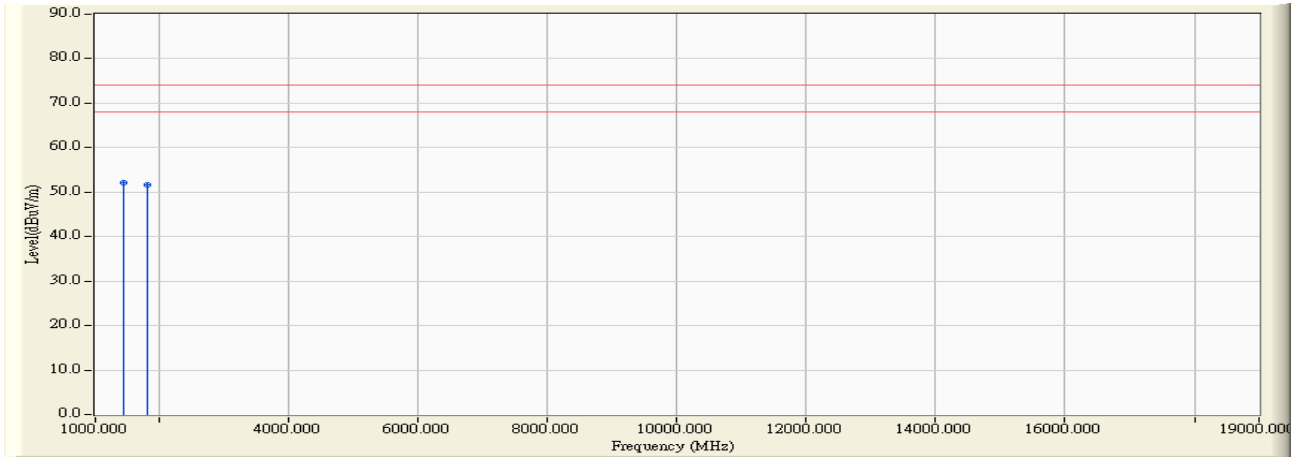


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1428.850	-5.098	53.990	48.893	-25.107	74.000	PEAK
2	*	1533.060	-5.032	57.280	52.248	-21.752	74.000	PEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/13 - 00:57
Limit : FCC_B_(Above_1G)_03M_PK	Margin : 6
EUT : Motherboard	Probe : 9120D_1-18G_Horn - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2

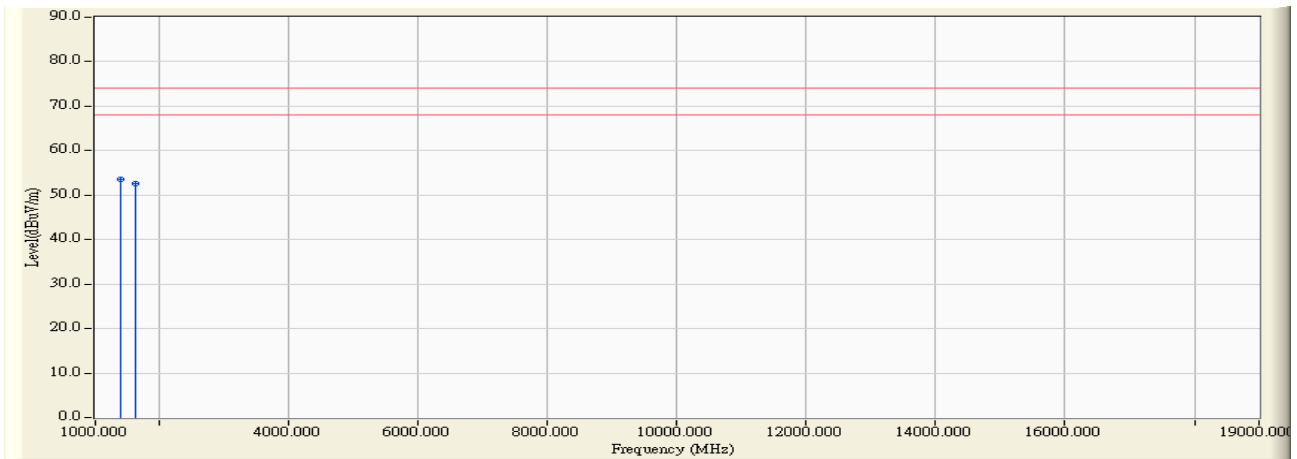


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1436.870	-5.094	57.250	52.156	-21.844	74.000	PEAK
2		1813.620	-4.702	56.410	51.708	-22.292	74.000	PEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/13 - 00:58
Limit : FCC_B_(Above_1G)_03M_PK	Margin : 6
EUT : Motherboard	Probe : 9120D_1-18G_Horn - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2

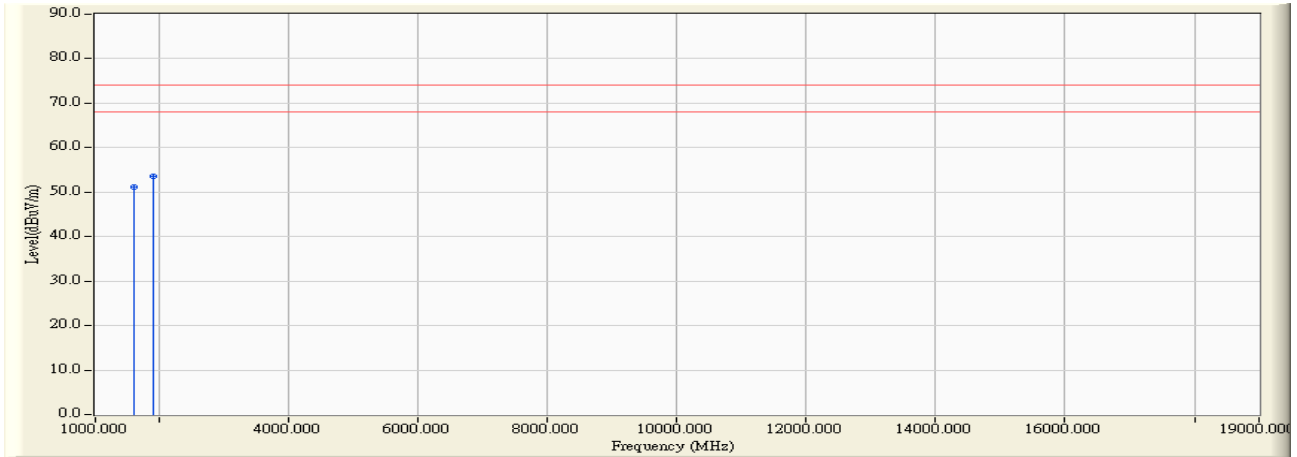


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1392.780	-5.158	58.680	53.522	-20.478	74.000	PEAK
2		1617.230	-4.965	57.660	52.695	-21.305	74.000	PEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/13 - 01:02
Limit : FCC_B_(Above_1G)_03M_PK	Margin : 6
EUT : Motherboard	Probe : 9120D_1-18G_Horn - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3



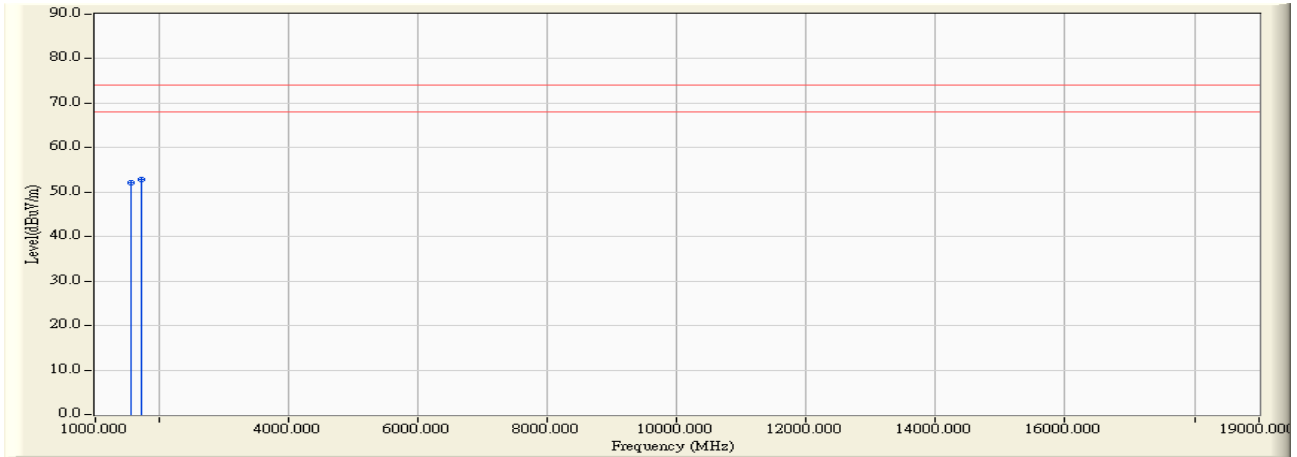
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1589.170	-5.013	56.230	51.217	-22.783	74.000	PEAK
2	*	1905.810	-4.273	57.840	53.567	-20.433	74.000	PEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Site : OATS-3	Time : 2007/04/13 - 01:03
Limit : FCC_B_(Above_1G)_03M_PK	Margin : 6
EUT : Motherboard	Probe : 9120D_1-18G_Horn - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3

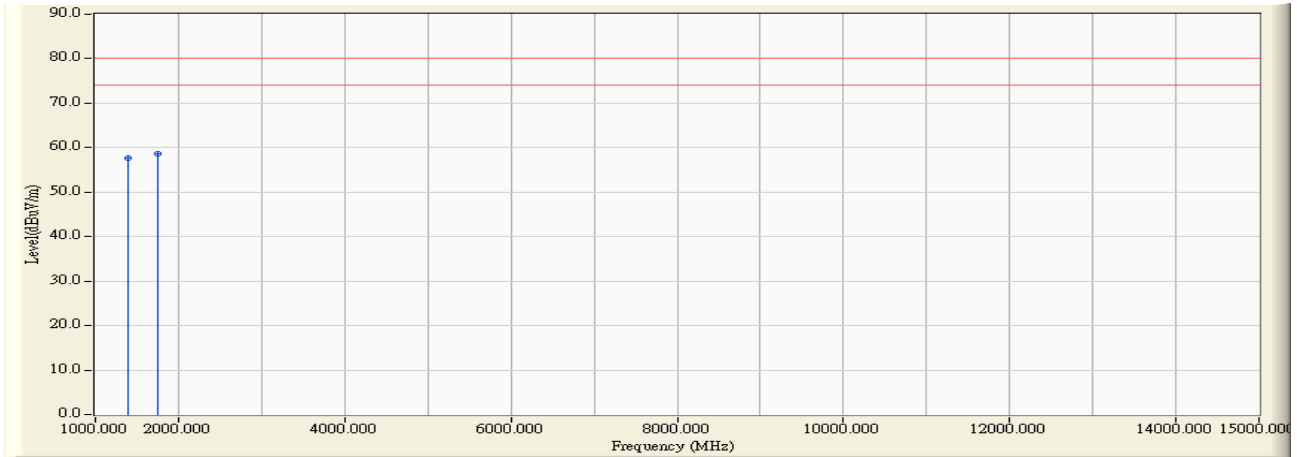


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	1549.090	-5.019	57.120	52.101	-21.899	74.000	PEAK
2	* 1717.430	-4.801	57.690	52.889	-21.111	74.000	PEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/13 - 01:10
Limit : FCC_B_Open(Above_1G)_03M_PK	Margin : 6
EUT : Motherboard	Probe : 9120D_1-18G_Horn - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4

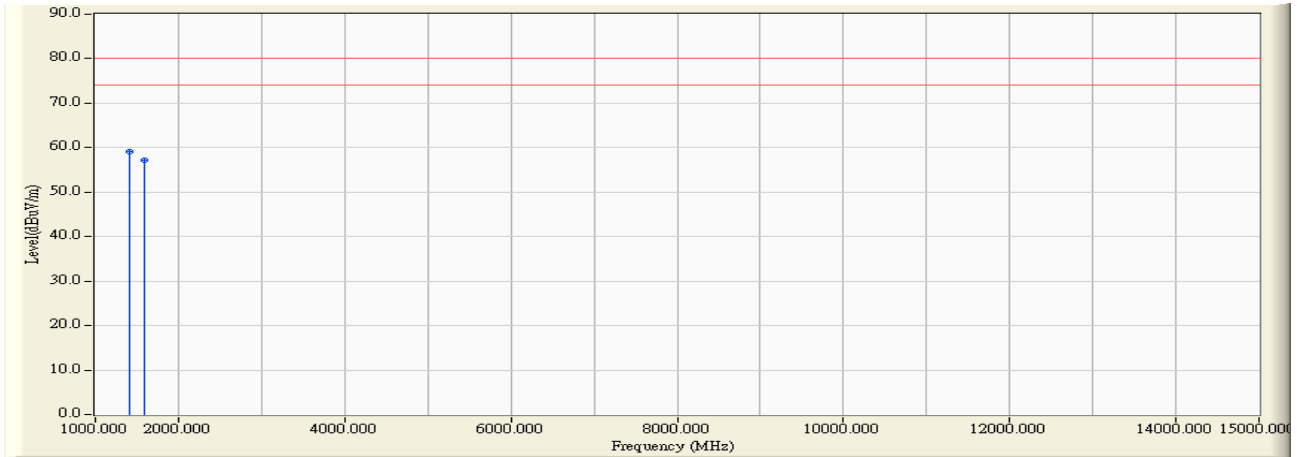


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1384.760	-5.194	62.790	57.595	-22.405	80.000	PEAK
2	*	1753.500	-4.793	63.540	58.746	-21.254	80.000	PEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/13 - 01:09
Limit : FCC_B_Open(Above_1G)_03M_PK	Margin : 6
EUT : Motherboard	Probe : 9120D_1-18G_Horn - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4

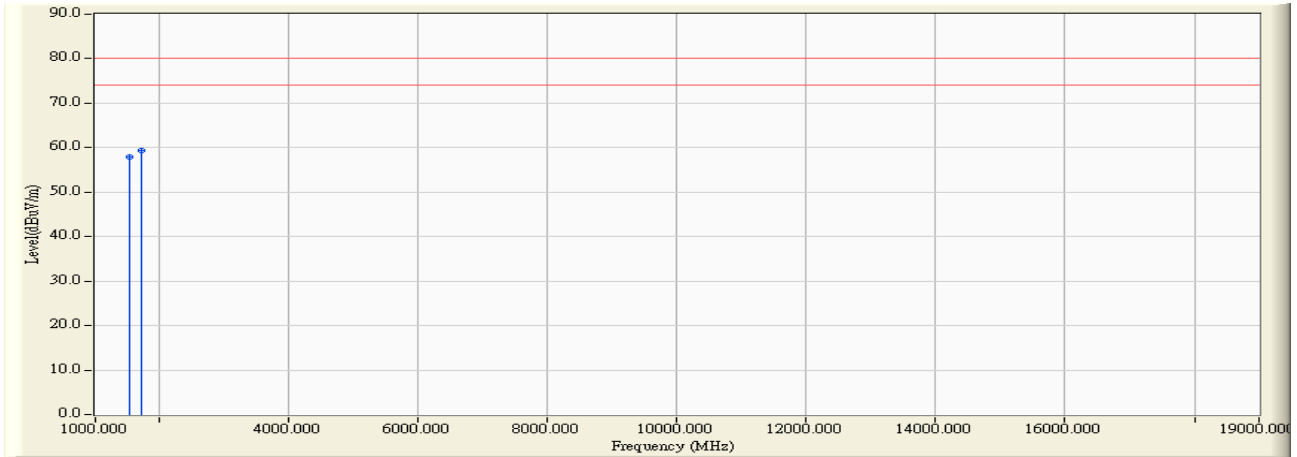


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1408.810	-5.115	64.290	59.175	-20.825	80.000	PEAK
2		1597.190	-5.006	62.080	57.074	-22.926	80.000	PEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/13 - 01:01
Limit : FCC_B_Open(Above_1G)_03M_PK	Margin : 6
EUT : Motherboard	Probe : 9120D_1-18G_Horn - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 5

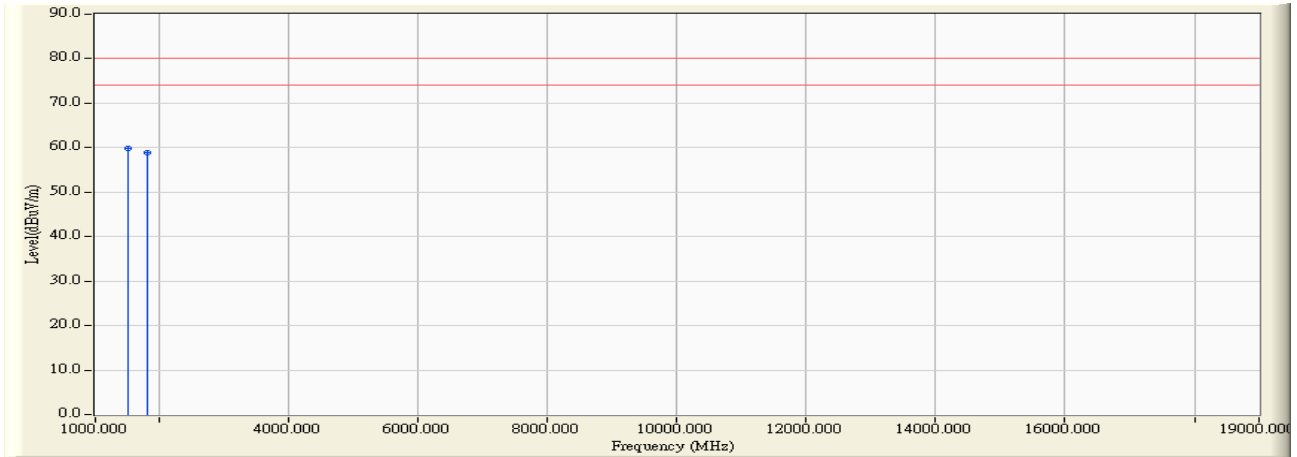


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1537.070	-5.028	62.940	57.912	-22.088	80.000	PEAK
2	*	1709.410	-4.808	64.150	59.343	-20.657	80.000	PEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/13 - 01:00
Limit : FCC_B_Open(Above_1G)_03M_PK	Margin : 6
EUT : Motherboard	Probe : 9120D_1-18G_Horn - VERTICAL
Power : AC 120V/60Hz	Note : Mode 5

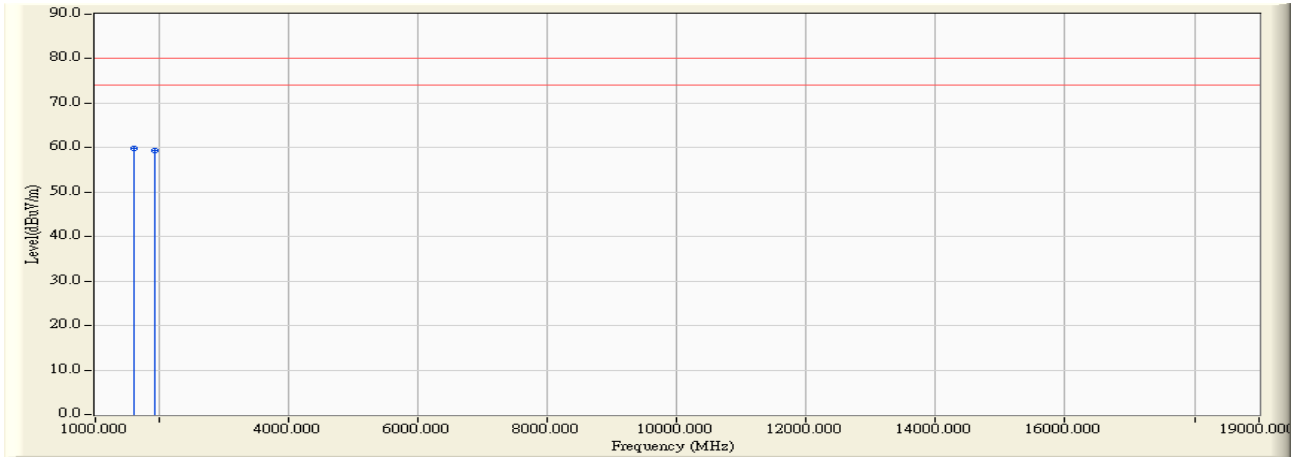


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1517.030	-5.042	64.780	59.738	-20.262	80.000	PEAK
2		1813.620	-4.702	63.490	58.788	-21.212	80.000	PEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/13 - 01:06
Limit : FCC_B_Open(Above_1G)_03M_PK	Margin : 6
EUT : Motherboard	Probe : 9120D_1-18G_Horn - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 6

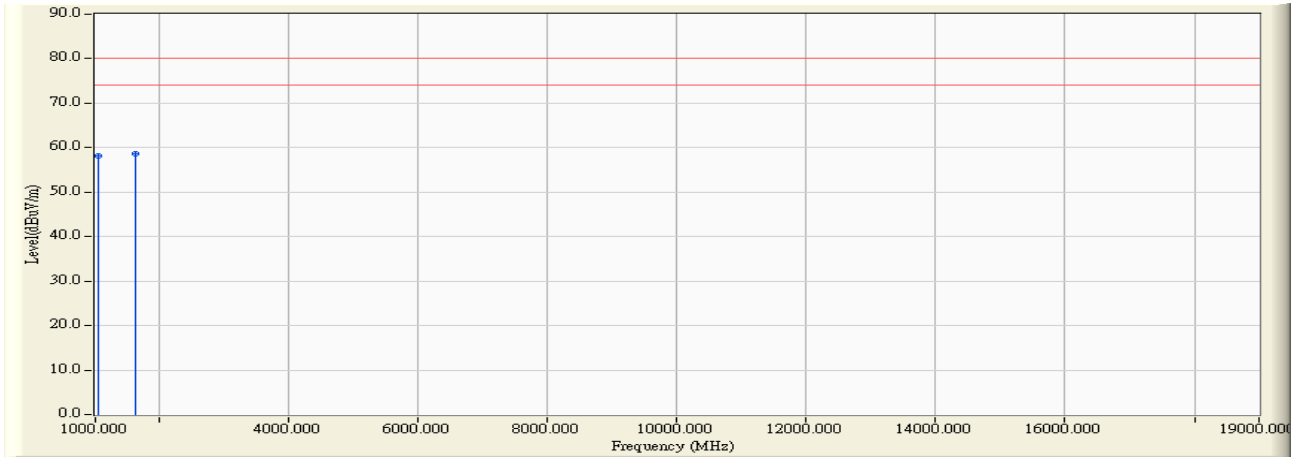


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1589.170	-5.013	64.760	59.747	-20.253	80.000	PEAK
2		1921.840	-4.188	63.480	59.291	-20.709	80.000	PEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/13 - 01:05
Limit : FCC_B_Open(Above_1G)_03M_PK	Margin : 6
EUT : Motherboard	Probe : 9120D_1-18G_Horn - VERTICAL
Power : AC 120V/60Hz	Note : Mode 6

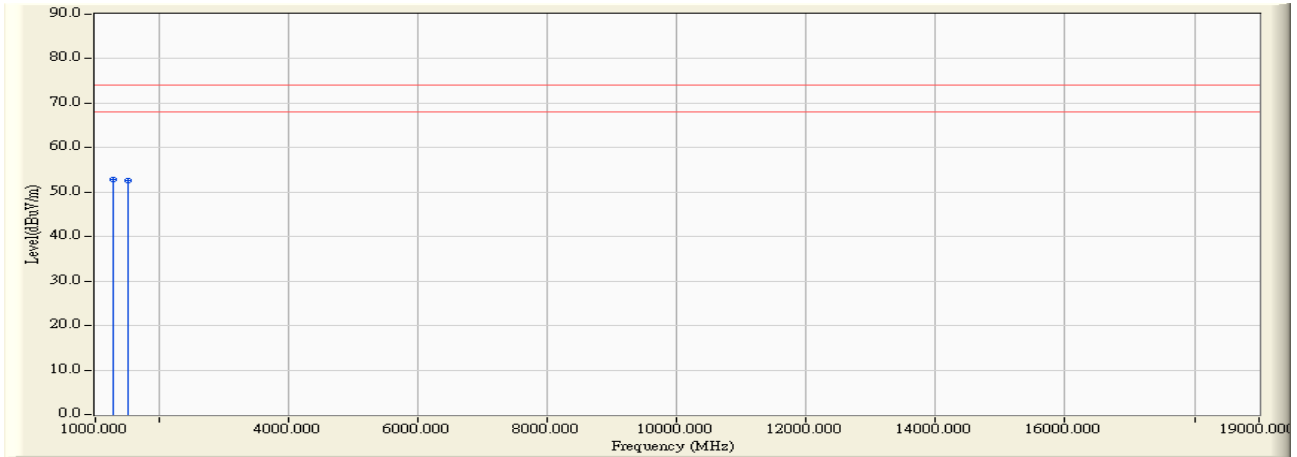


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1044.080	-6.501	64.650	58.149	-21.851	80.000	PEAK
2	*	1617.230	-4.965	63.710	58.745	-21.255	80.000	PEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/13 - 01:18
Limit : FCC_B_(Above_1G)_03M_PK	Margin : 6
EUT : Motherboard	Probe : 9120D_1-18G_Horn - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 7



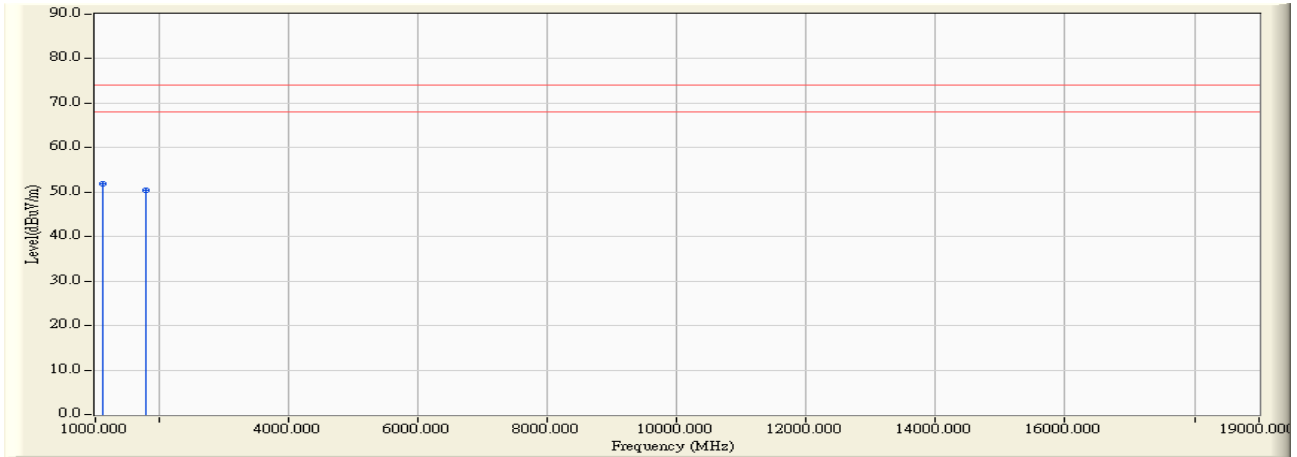
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1284.560	-5.717	58.560	52.844	-21.156	74.000	PEAK
2		1496.990	-5.050	57.630	52.580	-21.420	74.000	PEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Site : OATS-3	Time : 2007/04/13 - 01:19
Limit : FCC_B_(Above_1G)_03M_PK	Margin : 6
EUT : Motherboard	Probe : 9120D_1-18G_Horn - VERTICAL
Power : AC 120V/60Hz	Note : Mode 7

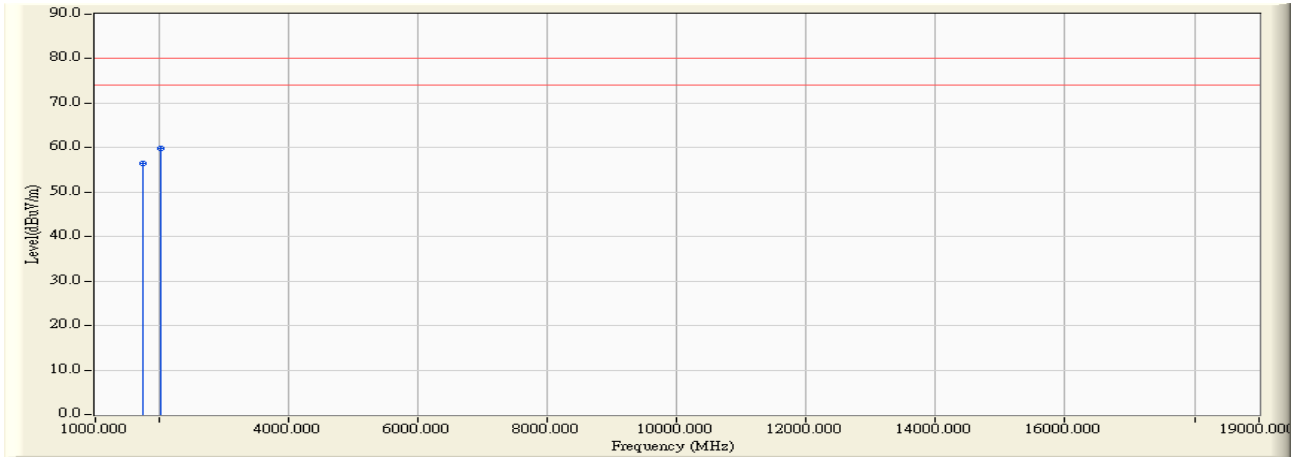


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1104.200	-6.374	58.290	51.916	-22.084	74.000	PEAK
2		1789.570	-4.772	55.180	50.408	-23.592	74.000	PEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/13 - 01:21
Limit : FCC_B_Open(Above_1G)_03M_PK	Margin : 6
EUT : Motherboard	Probe : 9120D_1-18G_Horn - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 10

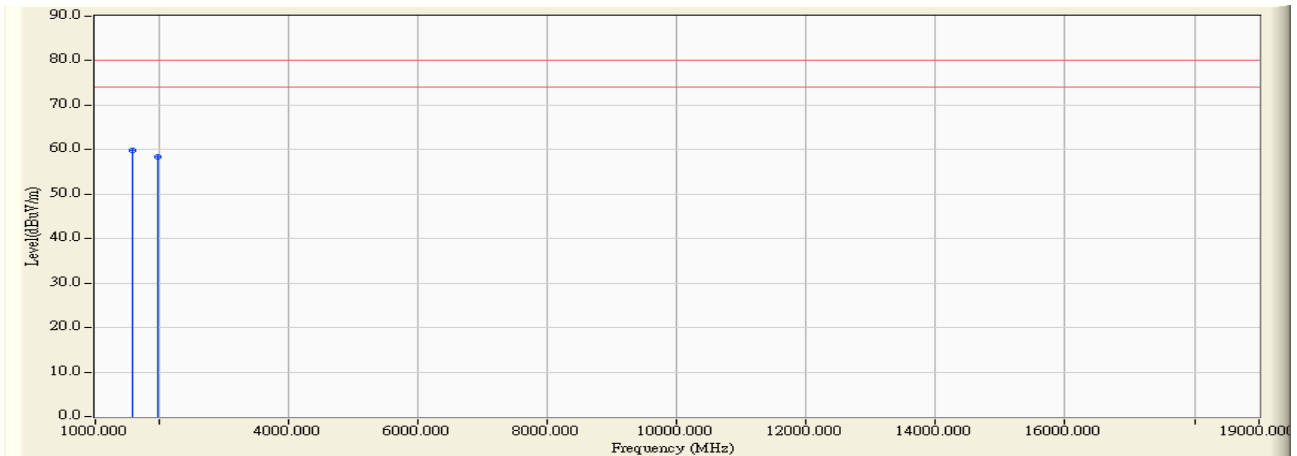


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1741.480	-4.797	61.310	56.512	-23.488	80.000	PEAK
2	*	2010.020	-3.740	63.610	59.870	-20.130	80.000	PEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : OATS-3	Time : 2007/04/13 - 01:20
Limit : FCC_B_Open(Above_1G)_03M_PK	Margin : 6
EUT : Motherboard	Probe : 9120D_1-18G_Horn - VERTICAL
Power : AC 120V/60Hz	Note : Mode 10



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1577.150	-5.011	64.920	59.909	-20.091	80.000	PEAK
2		1969.930	-3.946	62.370	58.425	-21.575	80.000	PEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

#### 4.6. Test Photograph

Test Mode : Mode 1: GA-G33-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1920\*1440/85Hz),Case Close

Description : Front View of Radiated Test



Test Mode : Mode 1: GA-G33-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1920\*1440/85Hz),Case Close

Description : Back View of Radiated Test



Test Mode : Mode 1: GA-G33-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1920\*1440/85Hz),Case Close

Description : Front View of High Frequency Radiated Test



Test Mode : Mode 2: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.73GHz/266MHz,D-SUB(1600\*1200/85Hz),Case Close

Description : Front View of Radiated Test



Test Mode : Mode 2: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.73GHz/266MHz,D-SUB(1600\*1200/85Hz),Case Close

Description : Back View of Radiated Test



Test Mode : Mode 2: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.73GHz/266MHz,D-SUB(1600\*1200/85Hz),Case Close

Description : Front View of High Frequency Radiated Test



Test Mode : Mode 3: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.80GHz/200MHz,D-SUB(1024\*768/75Hz),Case Close

Description : Front View of Radiated Test



Test Mode : Mode 3: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.80GHz/200MHz,D-SUB(1024\*768/75Hz),Case Close

Description : Back View of Radiated Test



Test Mode : Mode 3: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.80GHz/200MHz,D-SUB(1024\*768/75Hz),Case Close

Description : Front View of High Frequency Radiated Test



Test Mode : Mode 4: GA-G33-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1920\*1440/85Hz),Case Open

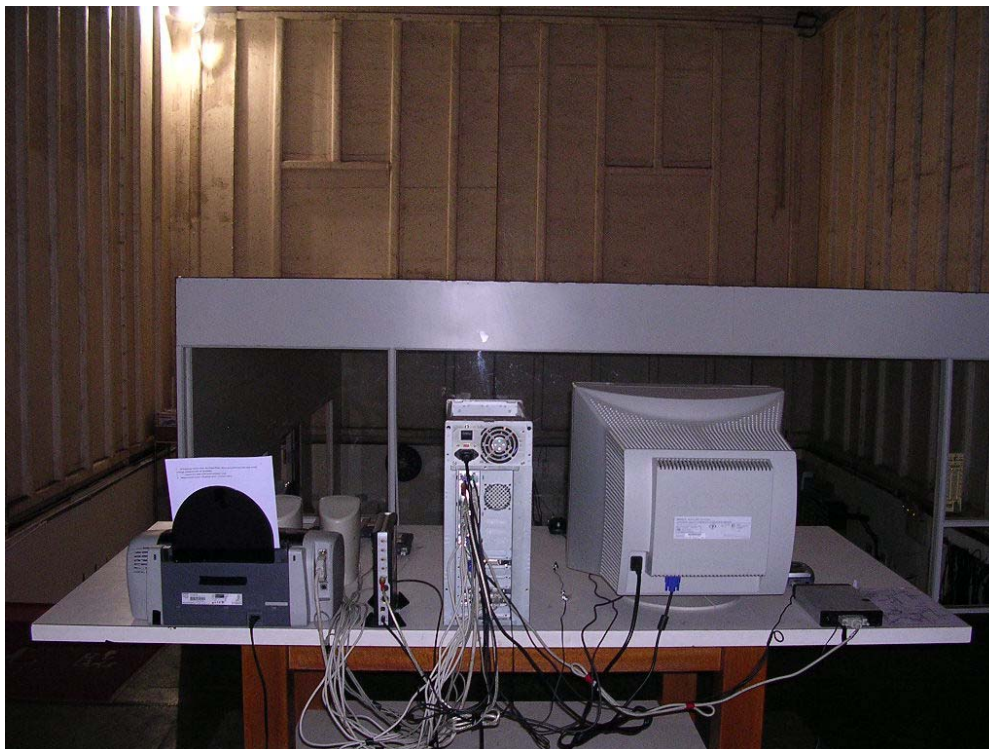
Description : Front View of Radiated Test





Test Mode : Mode 4: GA-G33-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1920\*1440/85Hz),Case Open

Description : Back View of Radiated Test



Test Mode : Mode 4: GA-G33-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1920\*1440/85Hz),Case Open

Description : Front View of High Frequency Radiated Test



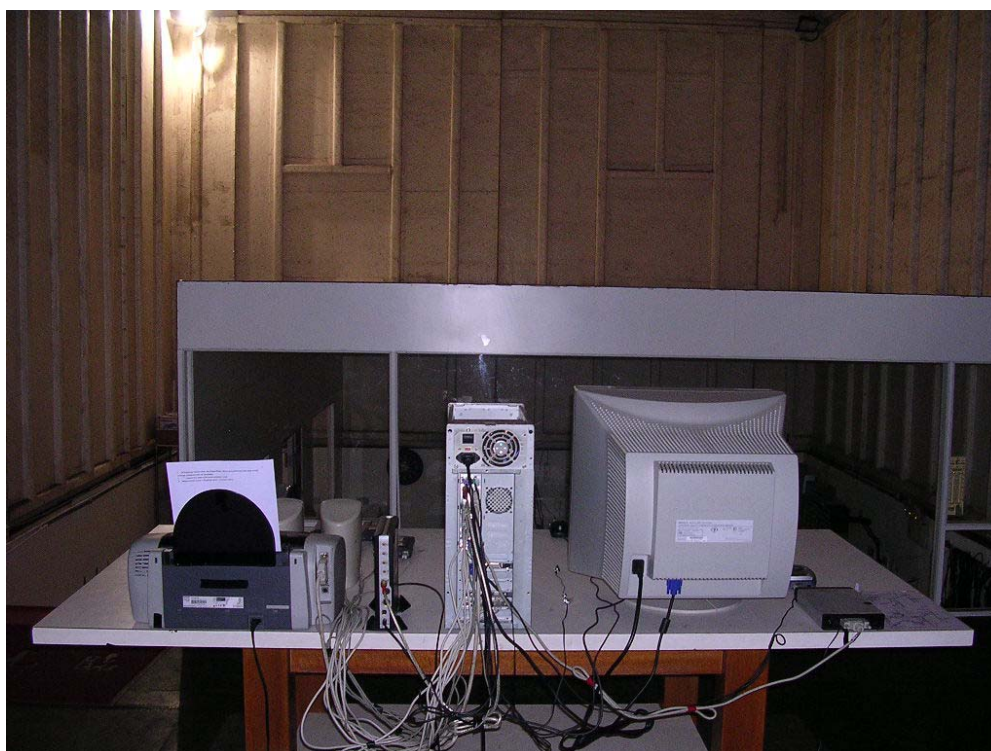
Test Mode : Mode 5: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.73GHz/266MHz,D-SUB(1600\*1200/85Hz),Case Open

Description : Front View of Radiated Test



Test Mode : Mode 5: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.73GHz/266MHz,D-SUB(1600\*1200/85Hz),Case Open

Description : Back View of Radiated Test



Test Mode : Mode 5: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.73GHz/266MHz,D-SUB(1600\*1200/85Hz),Case Open

Description : Front View of High Frequency Radiated Test



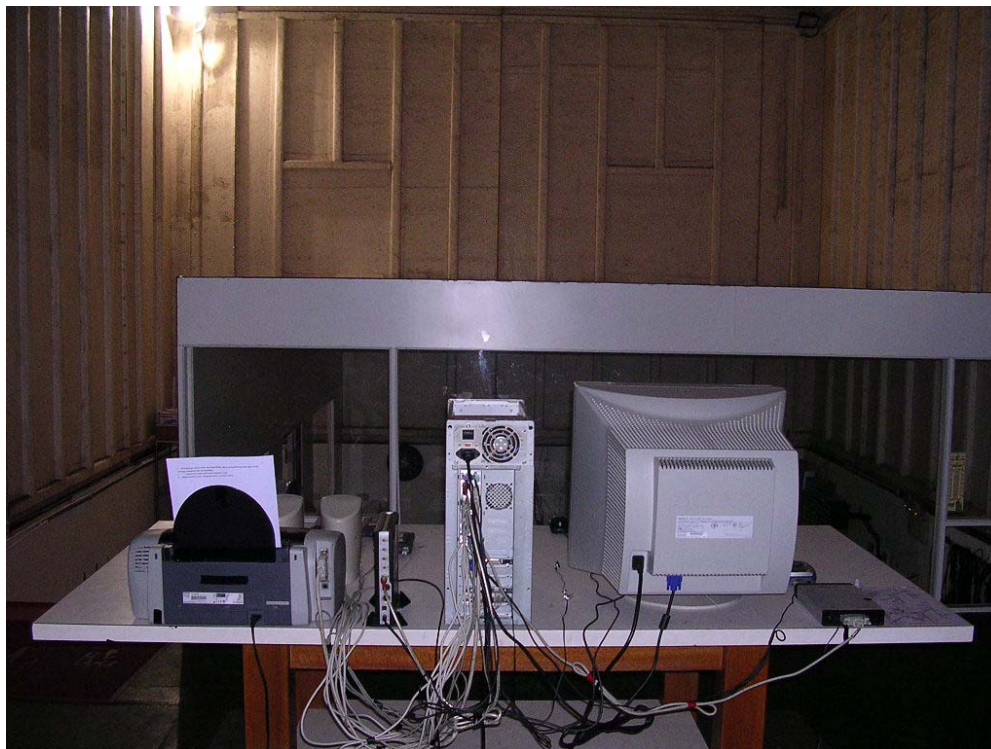
Test Mode : Mode 6: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.80GHz/200MHz,D-SUB(1024\*768/75Hz),Case Open

Description : Front View of Radiated Test



Test Mode : Mode 6: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.80GHz/200MHz,D-SUB(1024\*768/75Hz),Case Open

Description : Back View of Radiated Test



Test Mode : Mode 6: GA-G33-DS3,Intel Pentium IV(LGA 775) 3.80GHz/200MHz,D-SUB(1024\*768/75Hz),Case Open

Description : Front View of High Frequency Radiated Test



Test Mode : Mode 7: GA-P35-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1024\*768/75Hz),Case Close  
Description : Front View of Radiated Test



Test Mode : Mode 7: GA-P35-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1024\*768/75Hz),Case Close  
Description : Back View of Radiated Test



Test Mode : Mode 7: GA-P35-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1024\*768/75Hz),Case Close

Description : Front View of High Frequency Radiated Test



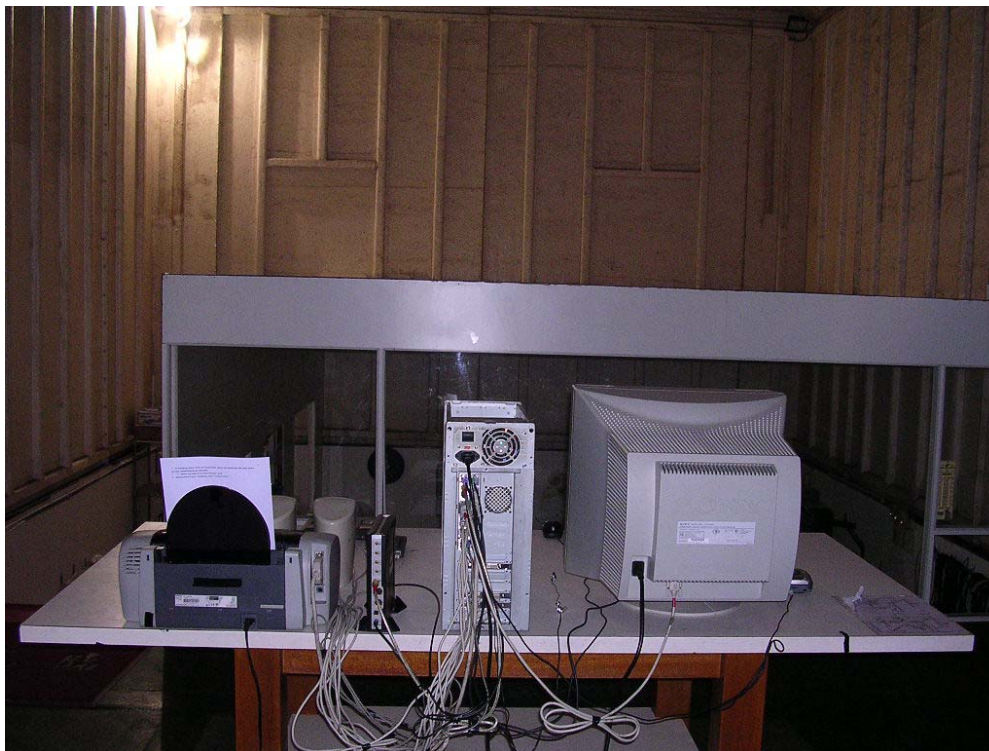
Test Mode : Mode 10: GA-P35-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1024\*768/75Hz),Case Open

Description : Front View of Radiated Test



Test Mode : Mode 10: GA-P35-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1024\*768/75Hz),Case Open

Description : Back View of Radiated Test



Test Mode : Mode 10: GA-P35-DS3,Intel Core 2 Duo 3.00GHz/333MHz,D-SUB(1024\*768/75Hz),Case Open

Description : Front View of High Frequency Radiated Test



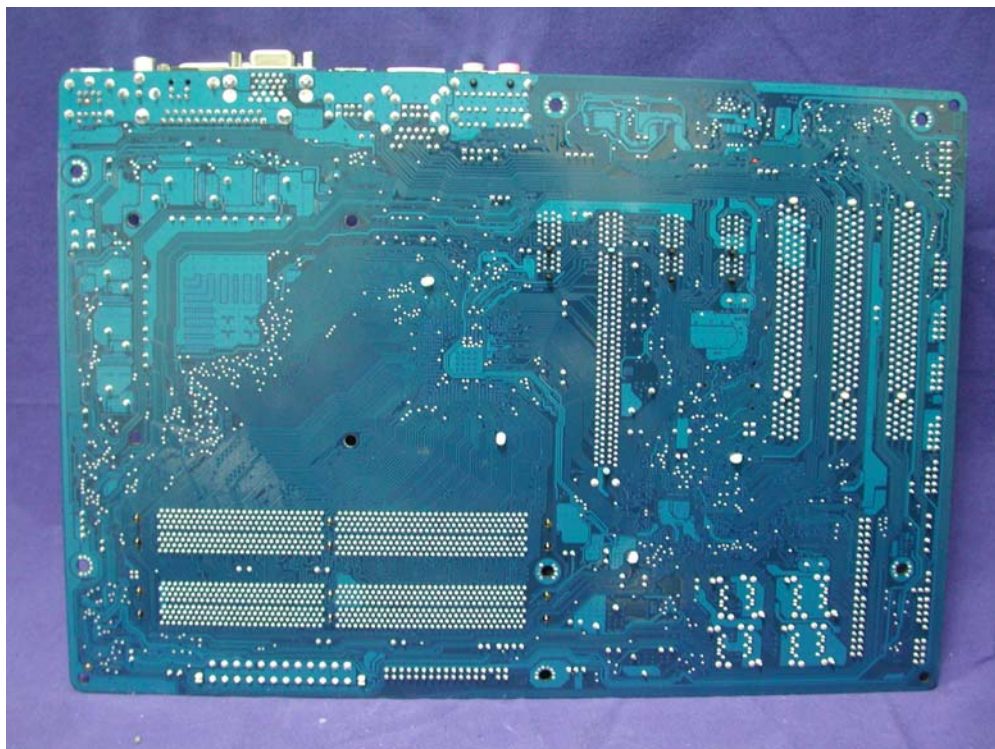
## 5. Attachment

### ➤ EUT Photograph

(1) EUT Photo-GA-G33-DS3

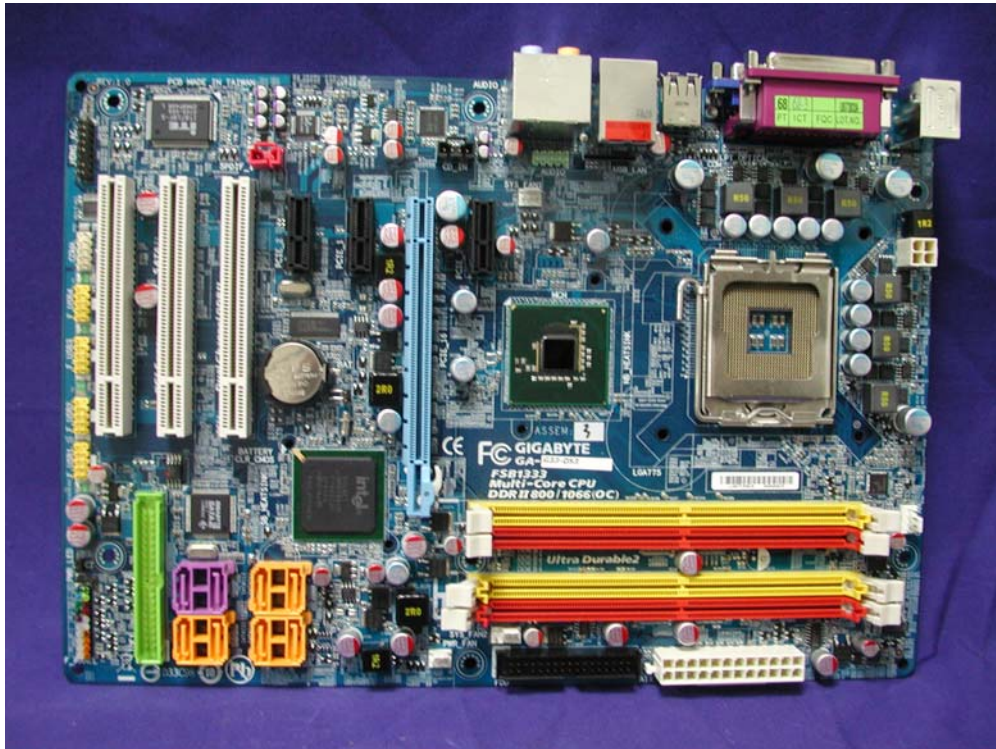


(2) EUT Photo





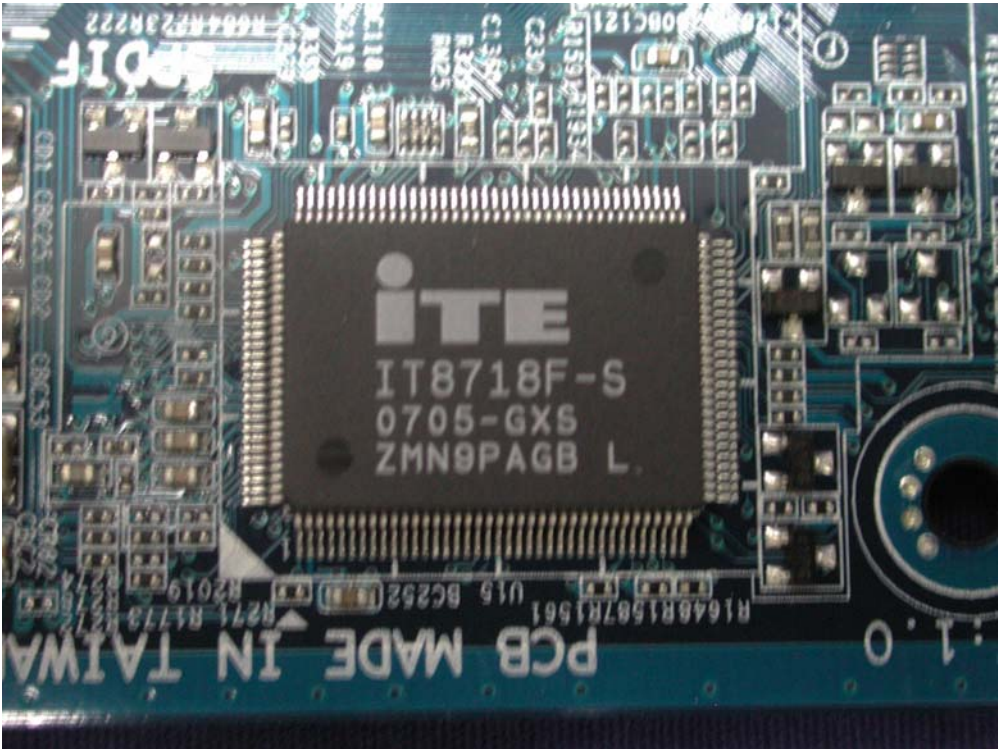
(3) EUT Photo



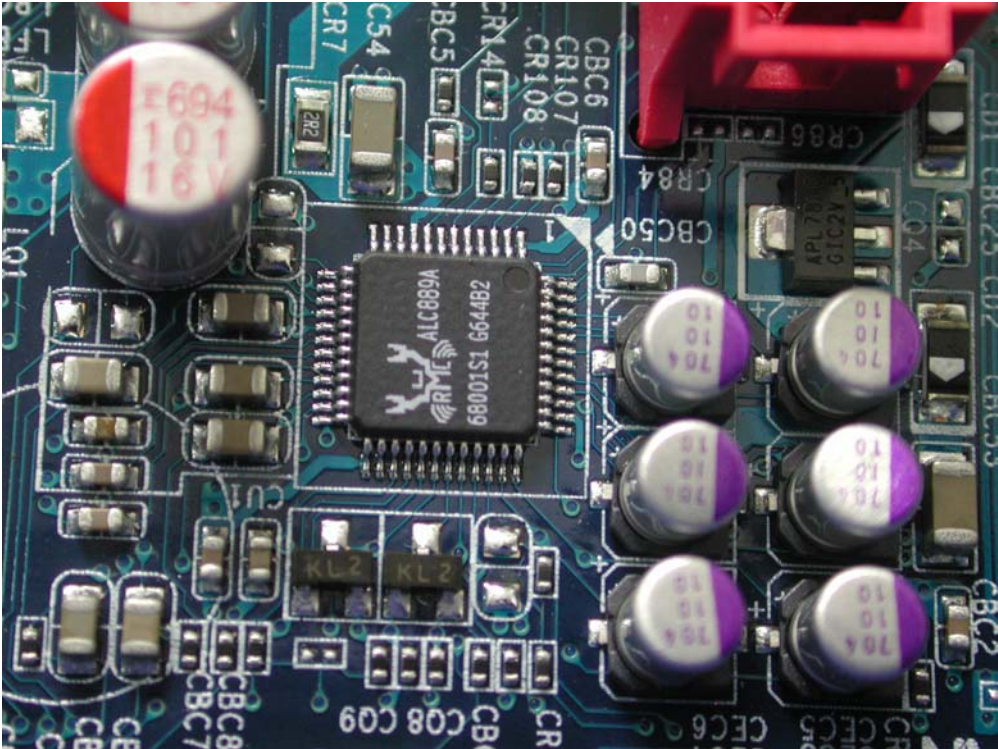
(4) EUT Photo



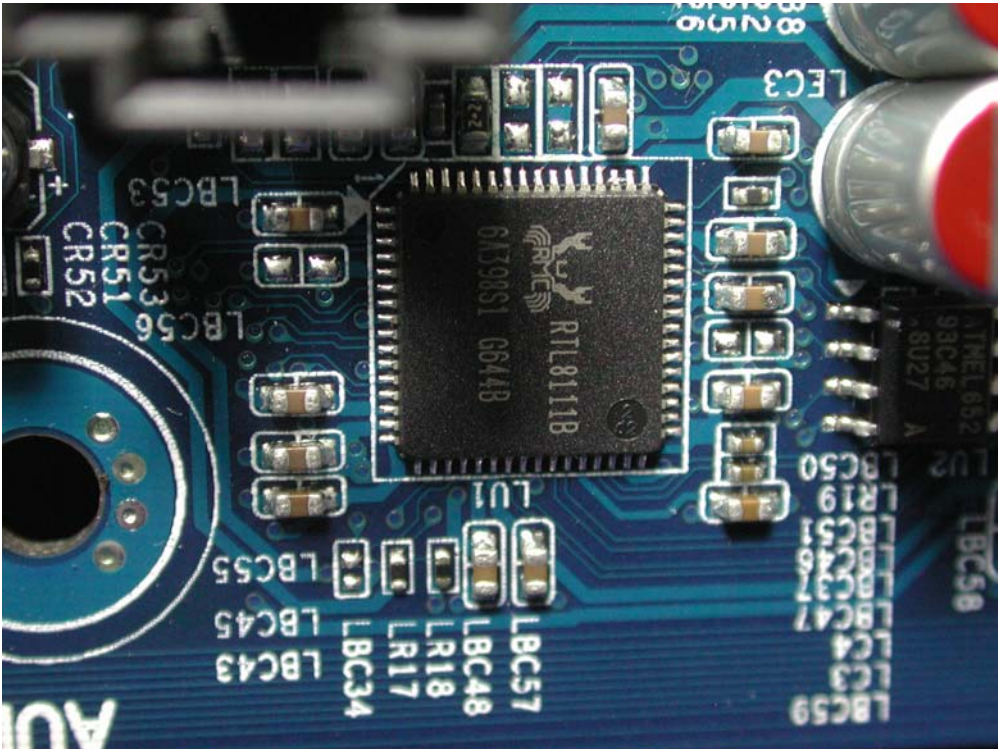
(5) EUT Photo



(6) EUT Photo



(7) EUT Photo



(8) EUT Photo





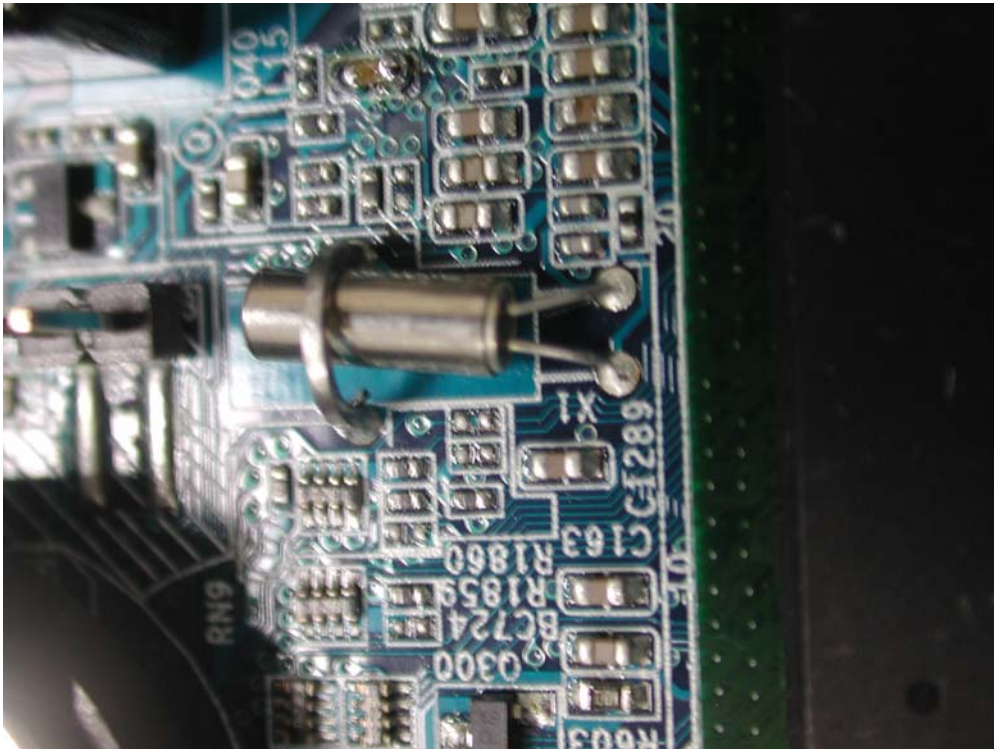
(11) EUT Photo



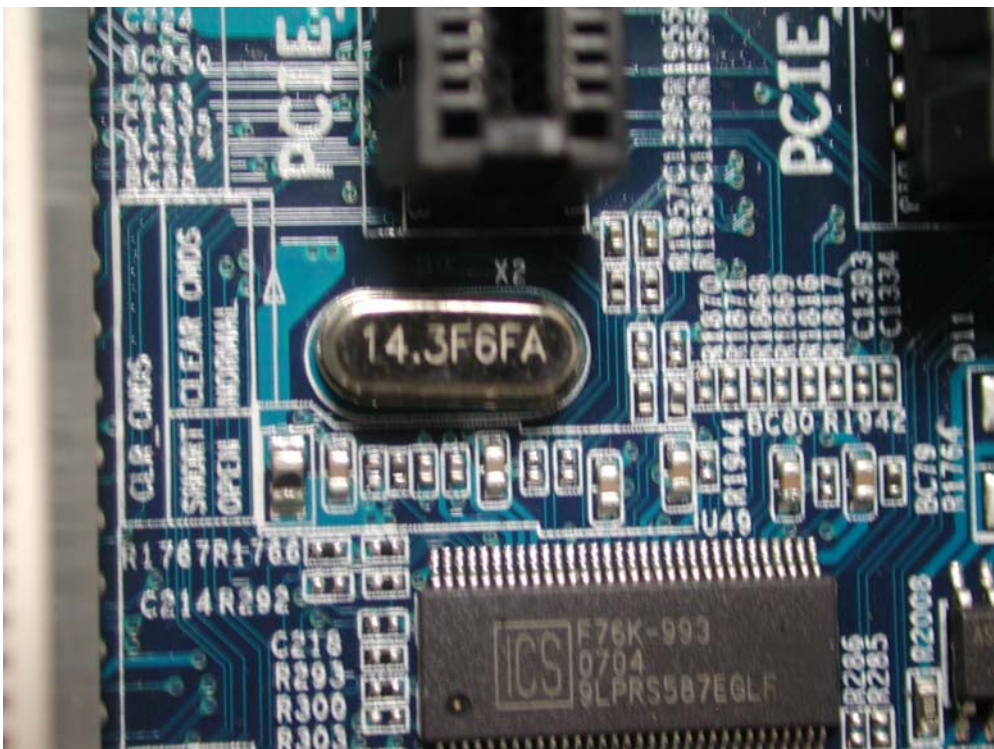
(12) EUT Photo



(13) EUT Photo



(14) EUT Photo



(15) EUT Photo



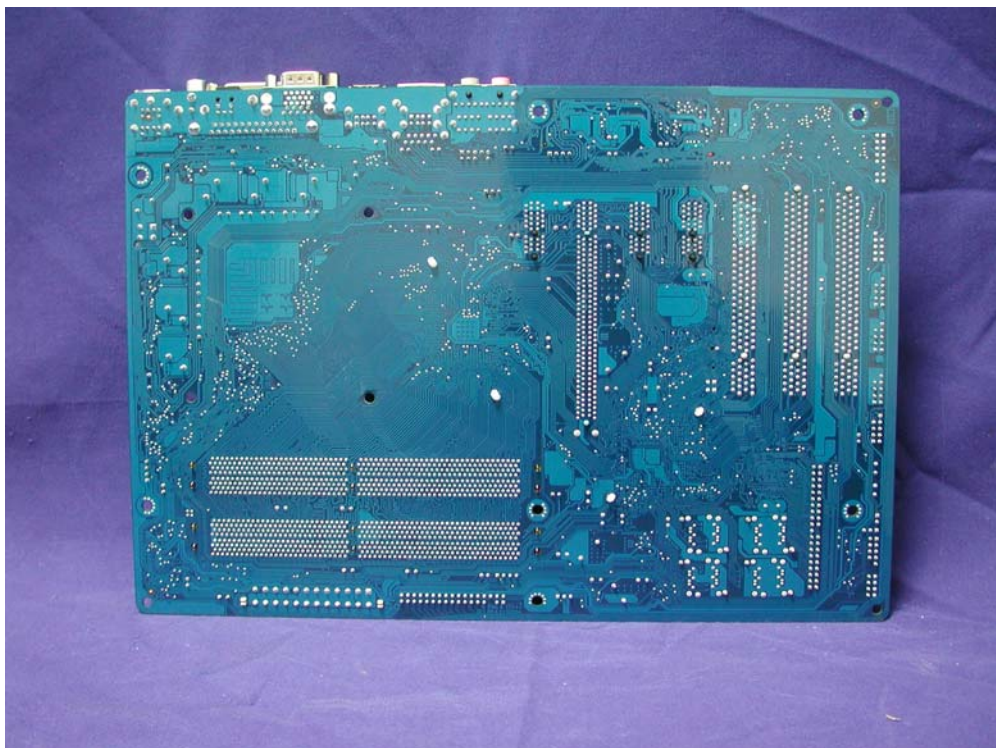
(16) EUT Photo



(17) EUT Photo-GA-P35-DS3

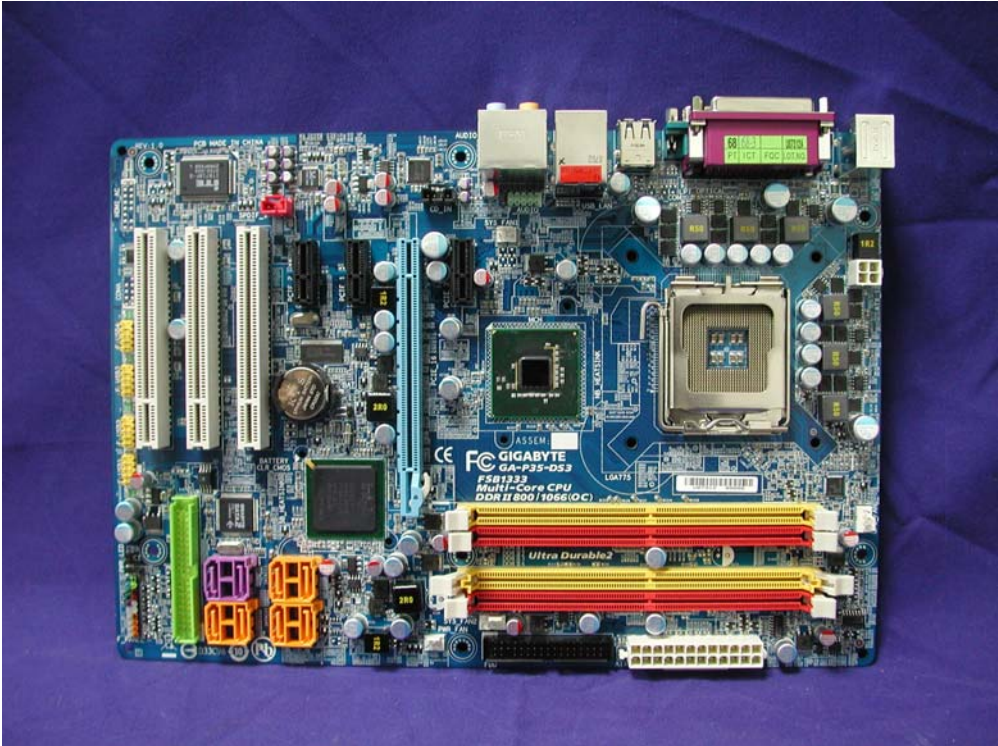


(18) EUT Photo





(19) EUT Photo



(20) EUT Photo





(23) EUT Photo



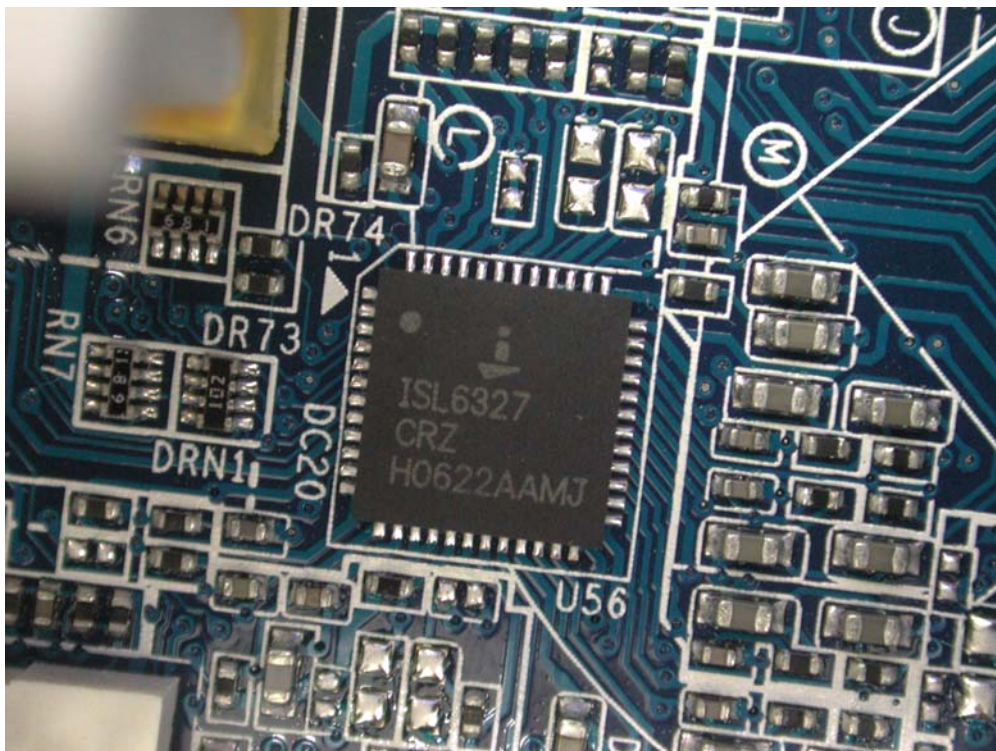
(24) EUT Photo



(25) EUT Photo

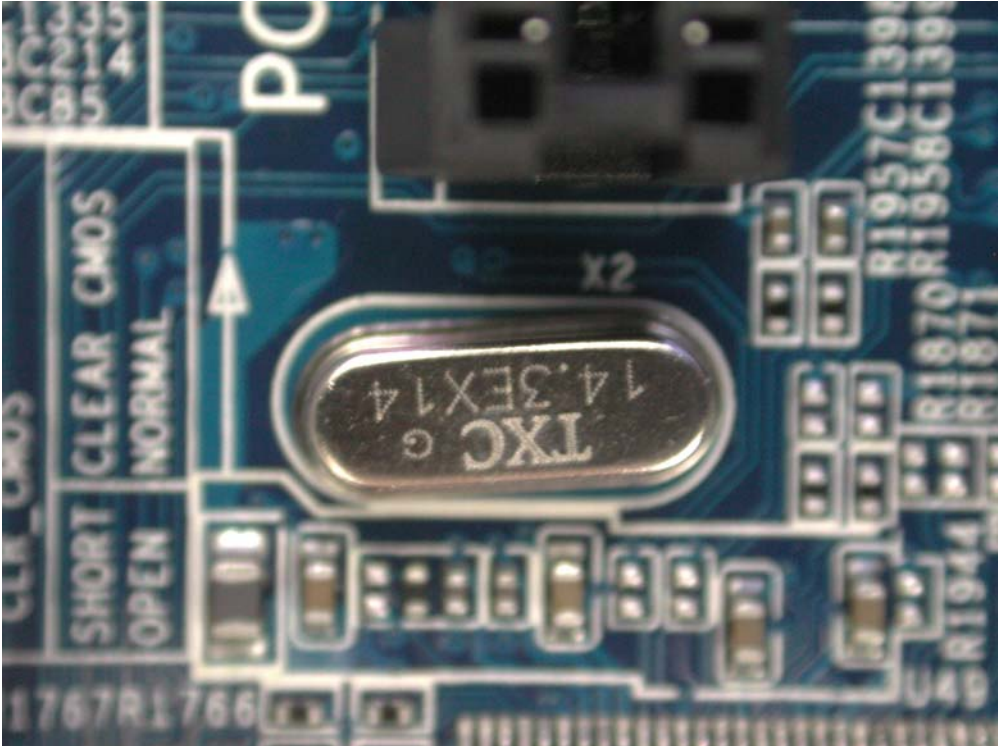


(26) EUT Photo

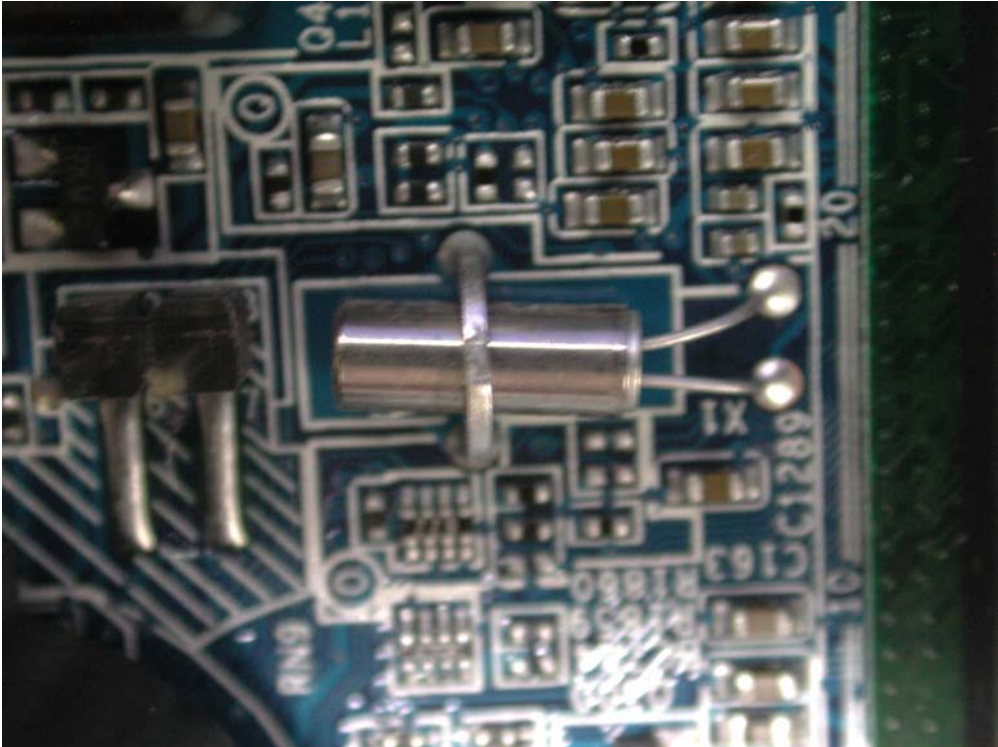




(29) EUT Photo



(30) EUT Photo



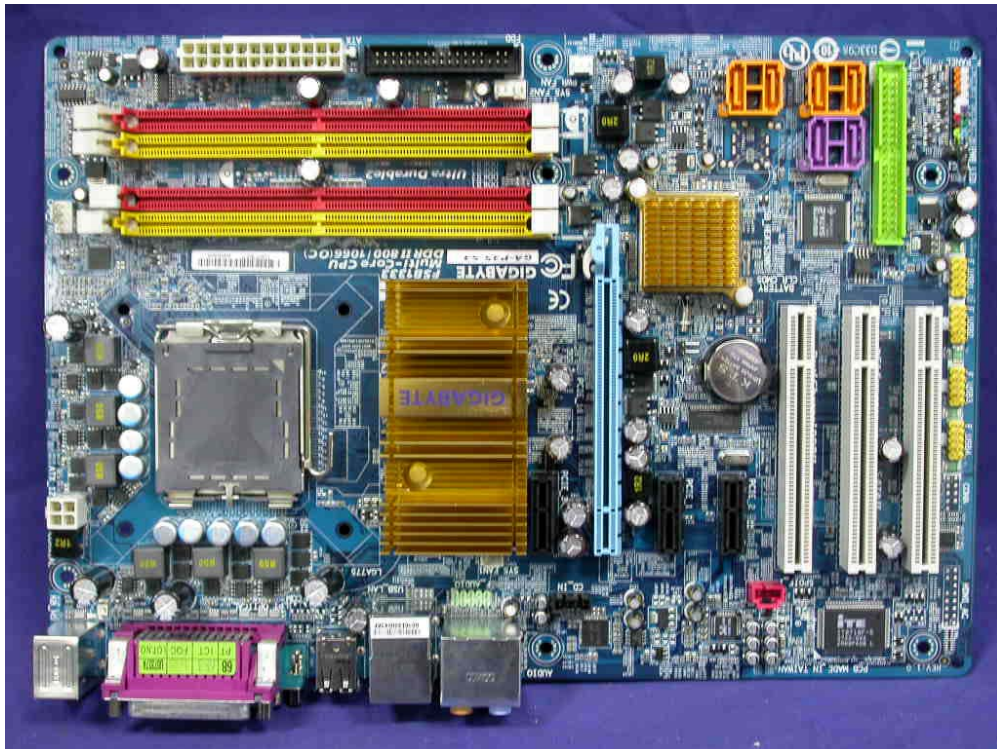
(31) EUT Photo



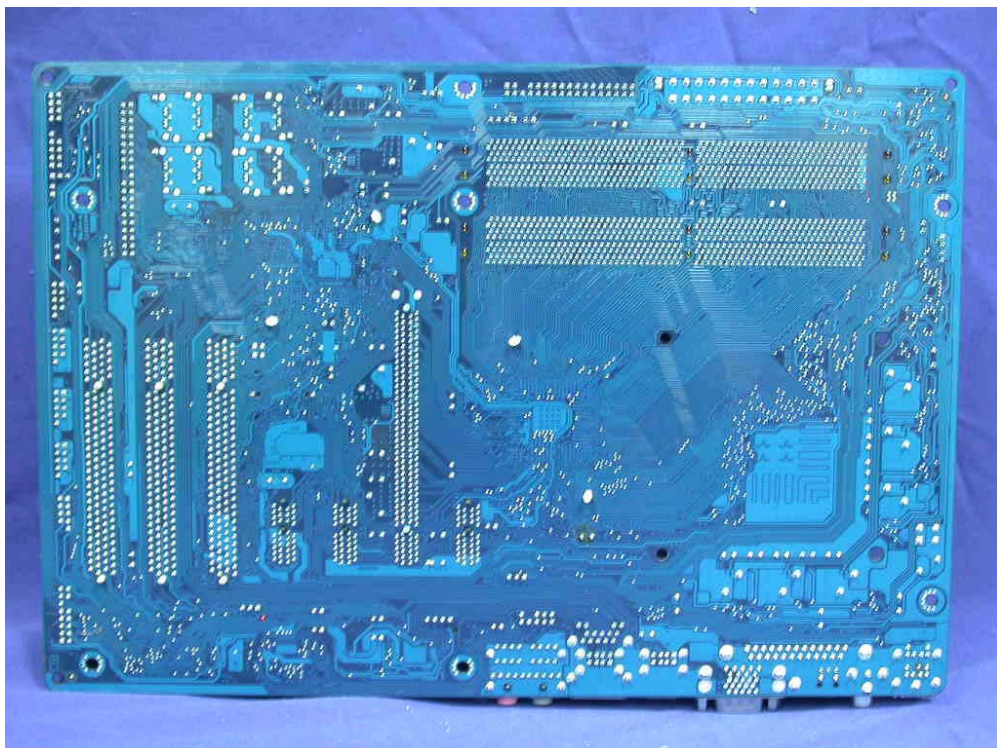
(32) EUT Photo



(33) EUT Photo-GA-P35-S3



(34) EUT Photo





(35) EUT Photo

