



Appendix Report

Compliance with Industry Canada Interference-Causing
Equipment Standard ICES-003

Product Name : Notebook PC

Model No. : K72xxx, X7Axxx, PRO7Axxx, P72xxx, A72xxx, X72xxx,
K72D, X72D, A72D, PRO7AD (x can be 0-9, A-Z or a-z or
blank)

Applicant : ASUSTeK COMPUTER INC.

Address : No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.

Date of Receipt : 2010/04/09

Issued Date : 2010/04/23

Report No. : 104223R-ITUSP02V02

Report Version : V1.0

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 TAF, NVLAP, NIST or any agency of the Government.

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Test Report Certification

Issued Date : 2010/04/23

Report No. : 104223R-ITUSP02V02



Product Name : Notebook PC

Applicant : ASUSTeK COMPUTER INC.

Address : No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.

Manufacturer : 1. PEGATRON CORPORATION Taoyuan Mfg
2. Protek (Shanghai) Limited.
3. NorthTec Asia (Shanghai) Limited.
4. FULIN ELECTRONICAL TECHONOLGY (CHANGSHU) CO LTD
5. FUXIANG PRECISION INDUSTRIAL(KUNSHAN) CO LTD

Model No. : K72xxx, X7Axxx, PRO7Axxx, P72xxx, A72xxx, X72xxx, K72D, X72D, A72D, PRO7AD (x can be 0-9, A-Z or a-z or blank)

EUT Rated Voltage : AC 100-240V, 50-60Hz

EUT Test Voltage : AC 120 V / 60 Hz

Trade Name : ASUS

Applicable Standard : FCC CFR Title 47 Part 15 Subpart B: 2009, Class B
CISPR 22: 2008, ANSI C63.4: 2003
ICES-003 Issue 4: 2004

Test Result : Complied

Performed Location : Quietek Corporation (Linkou Laboratory)
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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/accepted (audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scopes:

Taiwan R.O.C.	: BSMI, NCC, TAF
Germany	: TUV Rheinland
Norway	: Nemko, DNV
USA	: FCC, NVLAP
Japan	: VCCI

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/tw/emc/accreditations/accreditations.htm>
The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>
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1. General Information

1.1. EUT Description

Product Name	Notebook PC
Trade Name	ASUS
Model No.	K72xxx, X7Axxx, PRO7Axxx, P72xxx, A72xxx, X72xxx, K72D, X72D, A72D, PRO7AD (x can be 0-9, A-Z or a-z or blank)

Component	
Power Adapter (1)	MFR : LITEON, M/N : PA-1900-36 Input : 100-240V, 50-60Hz, 1.5A Output : 19VDC, 4.74A Cable : Non-shielded, 1.8M, with one ferrite core bonded.
Power Adapter (2)	MFR : Enertronix, M/N : EXA0904YH Input : 100-240V, 50-60Hz, 1.5A Output : 19VDC, 4.74A Cable : Non-shielded, 1.8M, with one ferrite core bonded.
Power Adapter (3)	MFR : DELTA, M/N : ADP-90CD DB Input : 100-240V, 50-60Hz, 1.5A Output : 19VDC, 4.74A Cable : Non-shielded, 1.8M, with one ferrite core bonded.

Keyparts List		
DEVICE	MODEL	SPEC
CPU (Socket: uOL638)	AMD N830 2.1GHZ/1.5M (3 cores)	CPU HMN830DCR32GM 35W (3 cores)
	AMD P520 2.3GHZ/2M (2 cores)	CPU TMP520SGR23GM 25W (2 cores)
	AMD P320 2.1GHZ/1M (2 cores)	CPU AMP320SGR22GM 25W (2 cores)
	AMD V120 2.2GHZ/2M DVT (1cores)	CPU VMV120SGR12GM 25W (1cores)

- Note: 1. The model number K72xxx, X7Axxx, PRO7Axxx, P72xxx, A72xxx, X72xxx, K72D, X72D, A72D, PRO7AD(x can be 0-9, A-Z or a-z or blank), "x" is refer 0-9, A-Z or a-z or blank.
The variation of model number is for different trade and marketing area.
2. This appendix report was based on Quietek report No. 09B240R-ITUSP02V02.
The different is add Model number and CPU.

1.2. 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	Mode 5	Mode 9
Mode 2	Mode 6	Mode 10
Mode 3	Mode 7	
Mode 4	Mode 8	
Final Test Mode		
Emission	Mode 1 Mode 2 Mode 3	

	Mode 1 LCD+D-SUB (1600*900/60Hz)	Mode 2 LCD+HDMI (1600*900/60Hz)
Motherboard	ASUS, K72DR	ASUS, K72DR
CPU	AMD N930 2.0GHZ/2M DVT (4 cores)	AMD P920 1.6GHZ/2M DVT (4cores)
LCD	LGD/LP173WD1-TLC1 OMEGA	CMO/N173O6-L02 ZBD
Camera	AZUREWAVE/AM-VS011	AZUREWAVE/AM-VS011
Memory	KINGSTON/ASU1333D3S9DR8G	KINGSTON/ASU1333D3S9DR8G/4G
HDD	SEAGATE/ST9500420AS 500G	SEAGATE/ST9320423AS 320G
	HGST/HTS725050A9A364 500G	HGST/HTS725032A9A364 320G
ODD	HLDS/CT21N	TSST/TS-L633C
WLAN	INTEL/ 112BNHMMW	Atheros/ AR5B95 (AW-NE785H)
Bluetooth	Broadcom/ BCM92070MD_REF (AW-BT270)	Broadcom/ BCM92070MD_REF (AW-BT270)
Adapter	DELTA/ ADP-90CD DB	ENERTRONIX/ EXA0904YH

	Mode 3 LCD+D-SUB (1600*900/60Hz)	Mode 4 LCD+HDMI (1600*900/60Hz)
Motherboard	ASUS, K72DR	ASUS, K72DR
CPU	AMD N620 2.8GHZ/2M DVT	AMD N530 2.5GHZ/2M (2 cores)
LCD	CMO/N173O6-L02 ZBD (2C)	LGD/LP173WD1-TLC1 OMEGA
Camera	CHICONY/CNF9085	AZUREWAVE/AM-VS011
Memory	HYNIX/HMT125S6TFR8C-H9	KINGSTON/ASU1333D3S9DR8G
HDD	SEAGATE/ST9500325AS 500G	SEAGATE/ST9640320AS
	HGST/HTS545050B9A300 500G	SEAGATE/ST9320325AS
ODD	PANASONIC/UJ890A	PLDS/DS-8A4S
WLAN	Atheros/ AR5B195 (AW-NB037H)	NTEL/ 112BNHMMW
Bluetooth		Broadcom/ BCM92070MD_REF (AW-BT270)
Adapter	LITEON/ PA-1900-36	DELTA/ ADP-90CD DB

	Mode 5 LCD+D-SUB (1600*900/60Hz)	Mode 6 LCD+HDMI (1600*900/60Hz)
Motherboard	ASUS, K72DR	ASUS, K72DR
CPU	AMD N330 2.3GHZ/1M (2 cores)	AMD N830 2.1GHZ/1.5M (3 cores)
LCD	CMO/N173O6-L02 ZBD	CMO/N173O6-L02 ZBD (2C)
Camera	AZUREWAVE/AM-VS011	CHICONY/CNF9085
Memory	KINGSTON/ASU1333D3S9DR8G/4G	HYNIX/HMT125S6TFR8C-H9
HDD	SAMSUNG/HM501II	SEAGATE/ST9250315AS
	WD/6400BEVT	SAMSUNG/HM321HI
ODD	OPTIARC/AD-7580S	PANASONIC/UJ130A
WLAN	Atheros/ AR5B95 (AW-NE785H)	Atheros/ AR5B195 (AW-NB037H)
Bluetooth	Broadcom/ BCM92070MD_REF (AW-BT270)	
Adapter	ENERTRONIX/ EXA0904YH	LITEON/ PA-1900-36

	Mode 7 LCD+D-SUB (1600*900/60Hz)	Mode 8 LCD+HDMI (1600*900/60Hz)
Motherboard	ASUS, K72DR	ASUS, K72DR
CPU	AMD P520 2.3GHZ/2M (2 cores)	AMD P320 2.1GHZ/1M (2 cores)
LCD	LGD/LP173WD1-TLC1 OMEGA	CMO/N173O6-L02 ZBD
Camera	AZUREWAVE/AM-VS011	AZUREWAVE/AM-VS011
Memory	KINGSTON/ASU1333D3S9DR8G	KINGSTON/ASU1333D3S9DR8G/4G
HDD	WD/5000BEVT	WD3200BEVT
	SAMSUNG/HM251HI	SAMSUNG/HM641JI
ODD	PANASONIC/UJ141A	TSST/TS-L633C
WLAN	NTEL/ 112BNHMMW	Atheros/ AR5B95 (AW-NE785H)
Bluetooth	Broadcom/ BCM92070MD_REF (AW-BT270)	Broadcom/ BCM92070MD_REF (AW-BT270)
Adapter	DELTA/ ADP-90CD DB	ENERTRONIX/ EXA0904YH

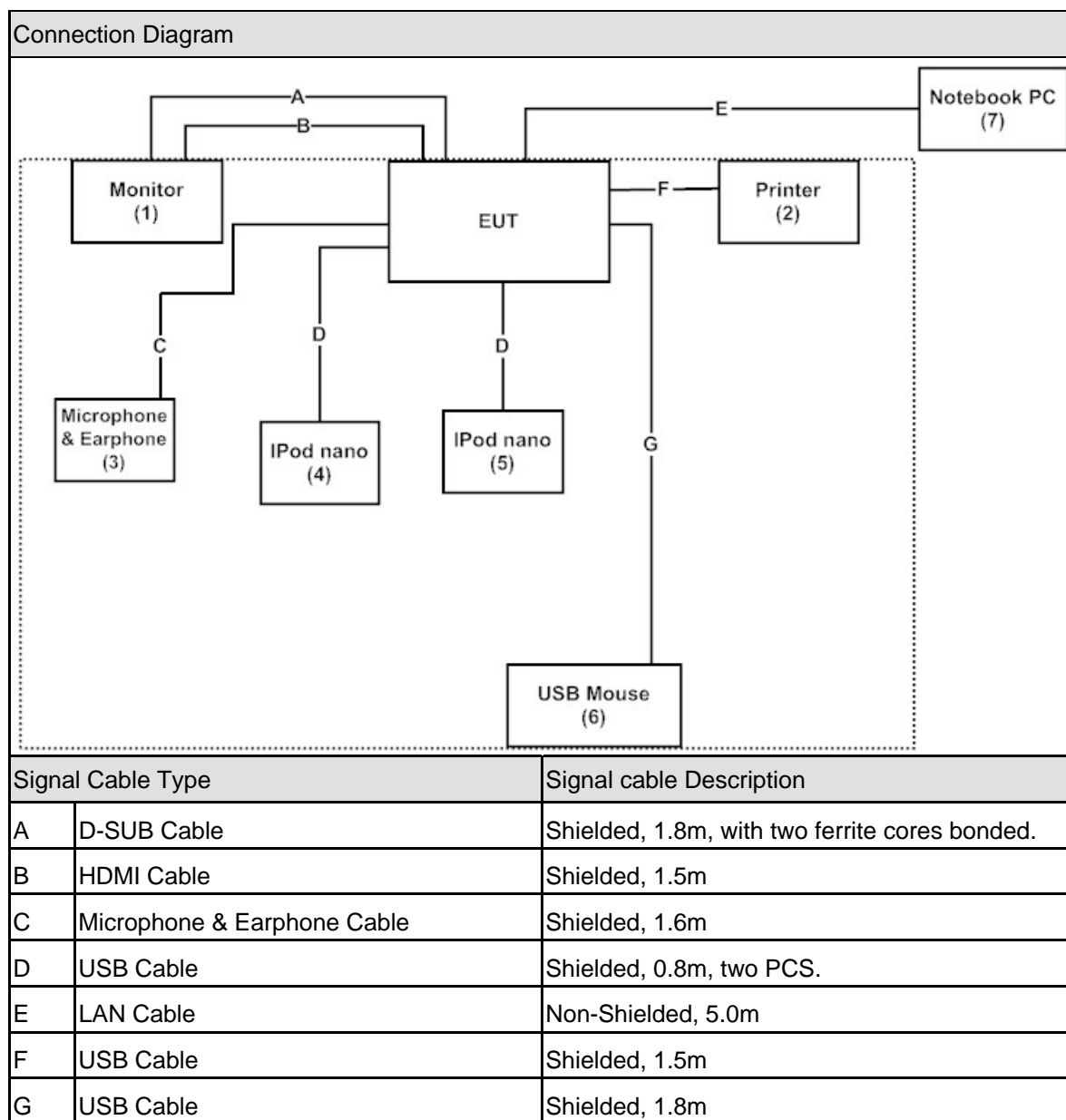
	Mode 9 LCD+D-SUB (1600*900/60Hz)	Mode 10 LCD+HDMI (1600*900/60Hz)
Motherboard	ASUS, K72DR	ASUS, K72DR
CPU	AMD P820 1.8GHZ/1.5M (3 cores)	AMD V120 2.2GHZ/2M DVT (1cores)
LCD	CMO/N173O6-L02 ZBD (2C)	LGD/LP173WD1-TLC1 OMEGA
Camera	CHICONY/CNF9085	AZUREWAVE/AM-VS011
Memory	HYNIX/HMT125S6TFR8C-H9	KINGSTON/ASU1333D3S9DR8G
HDD	WD/WD2500BEVT	SEAGATE/ST9500420AS 500G
	TOSHIBA/MK6465GSX	HGST/HTS725050A9A364 500G
ODD	PANASONIC/UJ890A	HLDS/CT21N
WLAN	Atheros/ AR5B195 (AW-NB037H)	NTEL/ 112BNHMMW
Bluetooth		Broadcom/ BCM92070MD_REF (AW-BT270)
Adapter	LITEON/ PA-1900-36	DELTA/ ADP-90CD DB

1.3. Tested System Details

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

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Monitor	DELL	U2410	CN-0J257M-728-01I-04ML	Non-Shielded, 1.8m
2	Printer	EPSON	StyLus C63	FAPY094331	Non-Shielded, 1.9m
3	Microphone & Earphone	Lobos	LB-EW020	N/A	N/A
4	iPod nano	Apple	A1236	7K818WQRY0P	N/A
5	iPod nano	Apple	A1236	7K818WX3Y0P	N/A
6	USB Mouse	DELL	M056U0A	F0Y01YEK	N/A
7	Notebook PC	DELL	D630	00144-023-351-375	Non-Shielded, 0.8m

1.4. Configuration of Tested System



1.5. EUT Exercise Software

1	Setup the EUT and peripheral as shown on Figure
2	Connect the power to EUT and peripherals, then turn on the power of all equipments.
3	Waiting for EUT to enter Windows System, and adjust the display resolution to the test mode.
4	Connect LAN and Telecom to Notebook PC for transmitting data.
5	Activate Wireless & Bluetooth interface function, and perform the wireless data communication with the other Notebook (write/delete action).
6	Personal Computer sends “H” pattern to printer, the printer will print “H” pattern on paper.
7	Run “H” pattern.
8	Begin to test and repeat the above procedure (4)~(7)

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: 2009 Class B ANSI C63.4: 2003	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart B: 2009 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	100366	2009/10/20
LISN	R&S	ENV4200	833209/007	2009/08/14
LISN	R&S	ENV216	100085	2010/02/17
Pulse Limiter	R&S	ESH3-Z2	357.88.10.52	2009/09/10

Radiated Emission / Site3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2704	2009/08/01
Broadband Horn Antenna	Schwarzbeck	BBHA9170	209	2009/07/25
EMI Test Receiver	R&S	ESCS 30	100149	2010/01/14
Horn Antenna	Schwarzbeck	BBHA9120D	305	2009/08/26
Pre-Amplifier	QTK	N/A	N/A	2009/08/01
Spectrum Analyzer	Advantest	R3162	100803470	2009/11/24
EMI Test Receiver	R&S	ESI 26	838786/004	2009/06/26
Pre-Amplifier	MITEQ	QMF-4D-18040 0-45-6P	925974	2010/01/03

2.3. Measurement Uncertainty

Conducted Emission

The measurement uncertainty is evaluated as ± 2.26 dB.

Radiated Emission

The measurement uncertainty is evaluated as ± 3.19 dB.

2.4. Test Environment

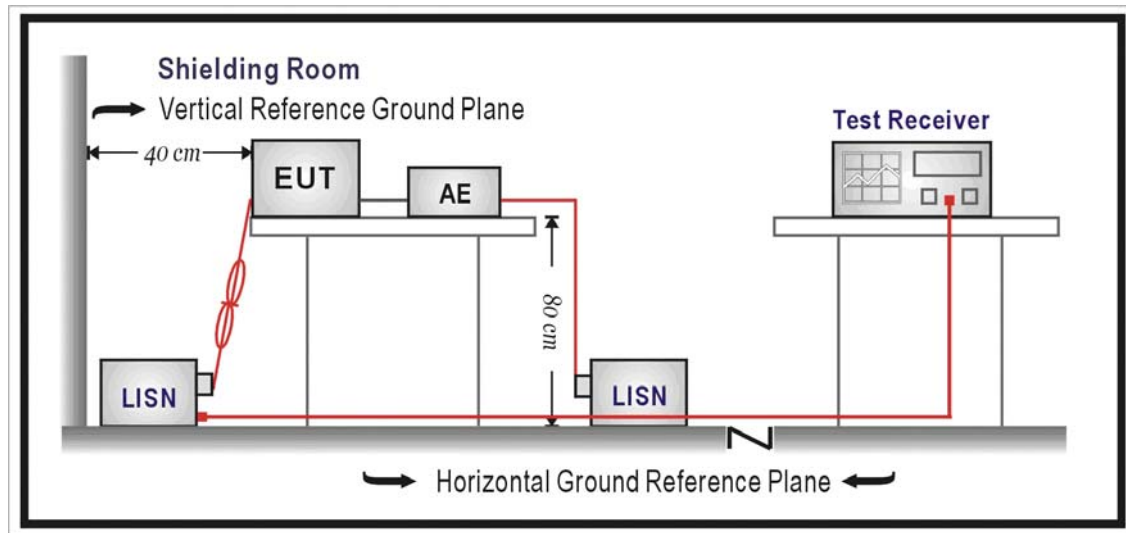
Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	50
	Barometric pressure (mbar)	860-1060	950-1000
Radiated Emission	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	50
	Barometric pressure (mbar)	860-1060	950-1000

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.

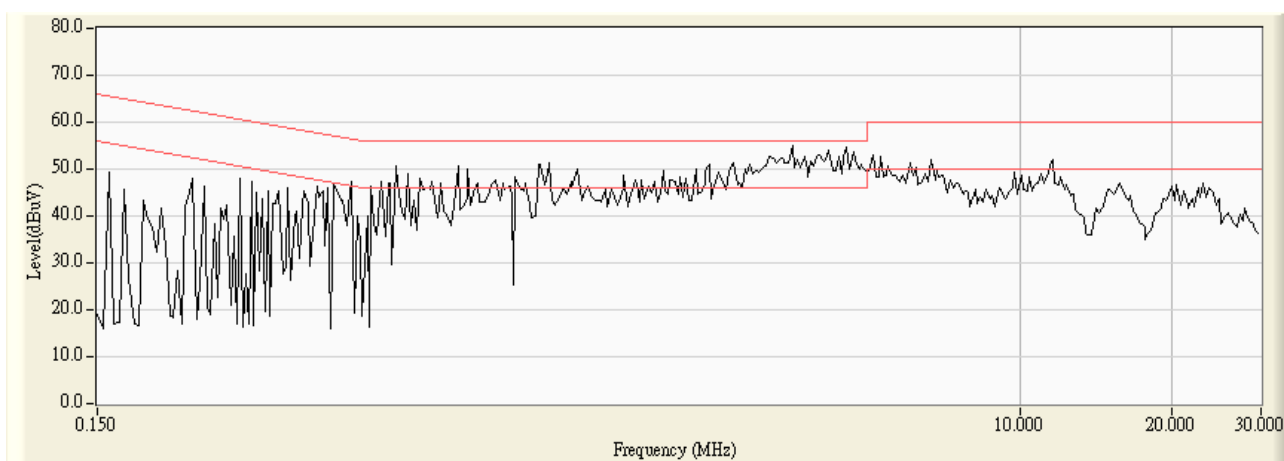
(Please refers to the block diagram of the test setup and photographs.)

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.

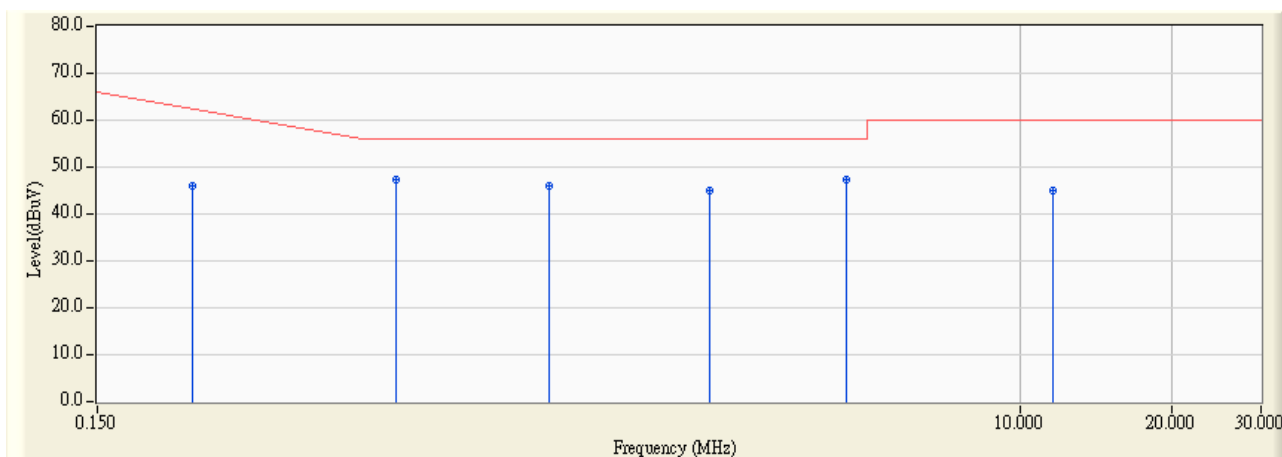
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Test Result

Site : SR1	Time : 2010/04/14 - 00:50
Limit : CISPR_B_00M_QP	Margin : 10
EUT : Notebook PC	Probe : ENV_216_L1 - Line1
Power : AC 120V/60Hz	Note : Mode 1



Site : SR1	Time : 2010/04/14 - 00:51
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Notebook PC	Probe : ENV_216_L1 - Line1
Power : AC 120V/60Hz	Note : Mode 1

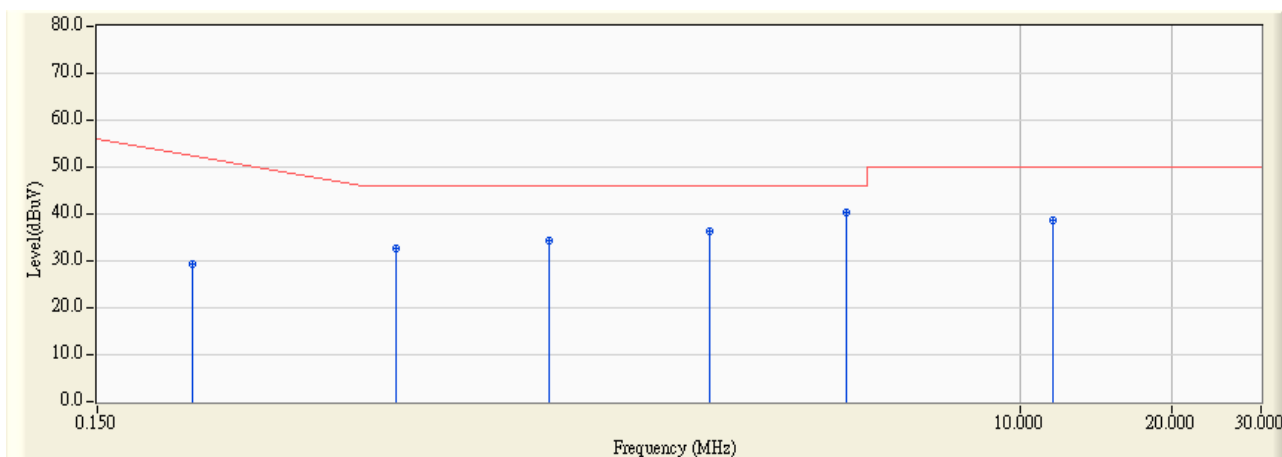


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.232	9.790	36.080	45.870	-17.787	63.657	QUASIPeAK
2		0.584	9.790	37.510	47.300	-8.700	56.000	QUASIPeAK
3		1.170	9.800	36.240	46.040	-9.960	56.000	QUASIPeAK
4		2.435	9.810	35.070	44.880	-11.120	56.000	QUASIPeAK
5	*	4.552	9.830	37.480	47.310	-8.690	56.000	QUASIPeAK
6		11.615	9.932	35.150	45.082	-14.918	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 : SR1	Time : 2010/04/14 - 00:51
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Notebook PC	Probe : ENV_216_L1 - Line1
Power : AC 120V/60Hz	Note : Mode 1

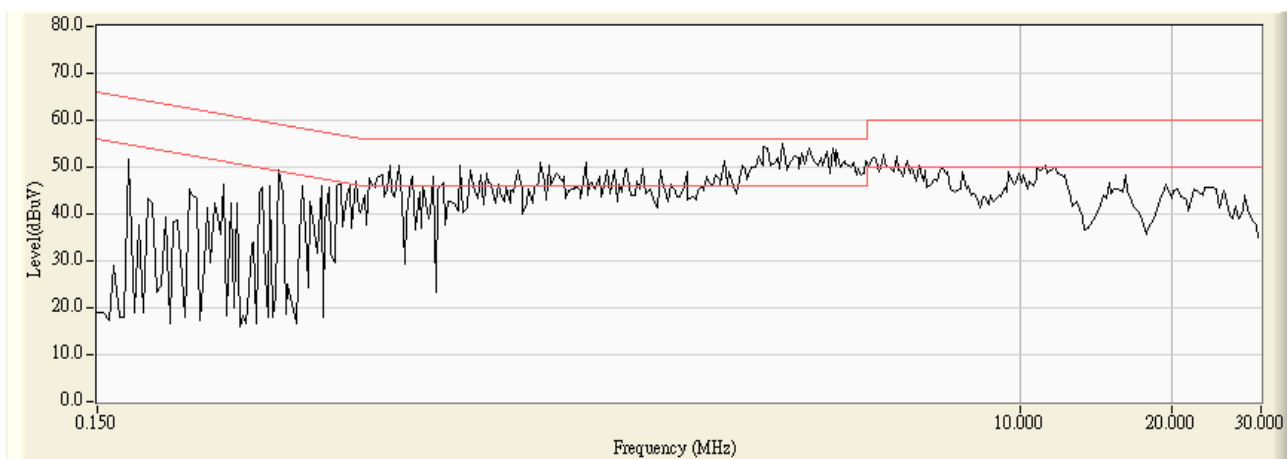


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.232	9.790	19.420	29.210	-24.447	53.657	AVERAGE
2		0.584	9.790	22.730	32.520	-13.480	46.000	AVERAGE
3		1.170	9.800	24.510	34.310	-11.690	46.000	AVERAGE
4		2.435	9.810	26.430	36.240	-9.760	46.000	AVERAGE
5	*	4.552	9.830	30.610	40.440	-5.560	46.000	AVERAGE
6		11.615	9.932	28.660	38.592	-11.408	50.000	AVERAGE

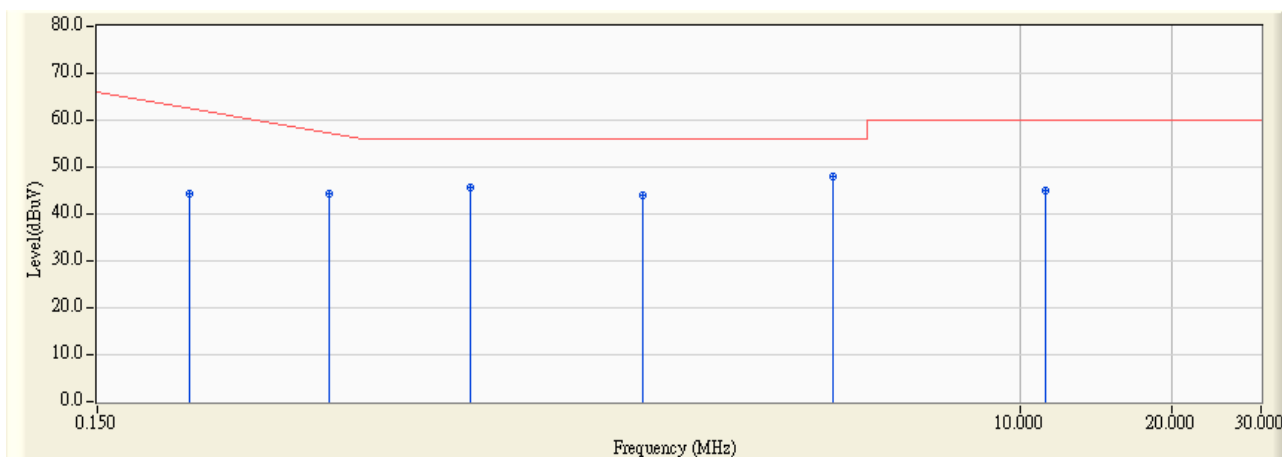
Note:

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 : SR1	Time : 2010/04/14 - 00:52
Limit : CISPR_B_00M_QP	Margin : 10
EUT : Notebook PC	Probe : ENV_216_N - Line2
Power : AC 120V/60Hz	Note : Mode 1



Site : SR1	Time : 2010/04/14 - 00:52
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Notebook PC	Probe : ENV_216_N - Line2
Power : AC 120V/60Hz	Note : Mode 1

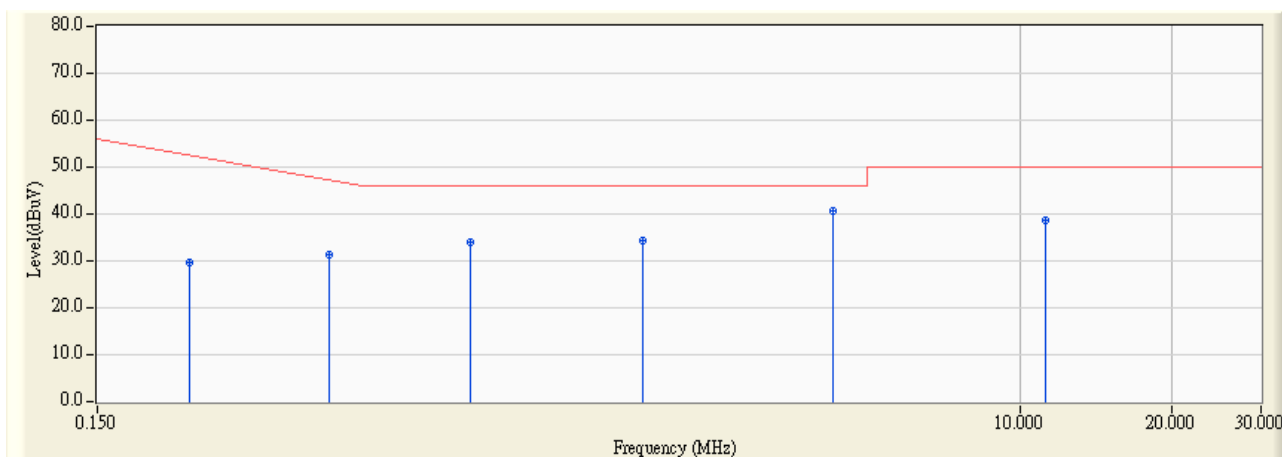


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.228	9.780	34.430	44.210	-19.561	63.771	QUASIPeAK
2		0.431	9.790	34.540	44.330	-13.641	57.971	QUASIPeAK
3		0.818	9.790	35.860	45.650	-10.350	56.000	QUASIPeAK
4		1.795	9.800	34.360	44.160	-11.840	56.000	QUASIPeAK
5	*	4.271	9.820	38.180	48.000	-8.000	56.000	QUASIPeAK
6		11.252	9.929	34.950	44.879	-15.121	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 : SR1	Time : 2010/04/14 - 00:52
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Notebook PC	Probe : ENV_216_N - Line2
Power : AC 120V/60Hz	Note : Mode 1

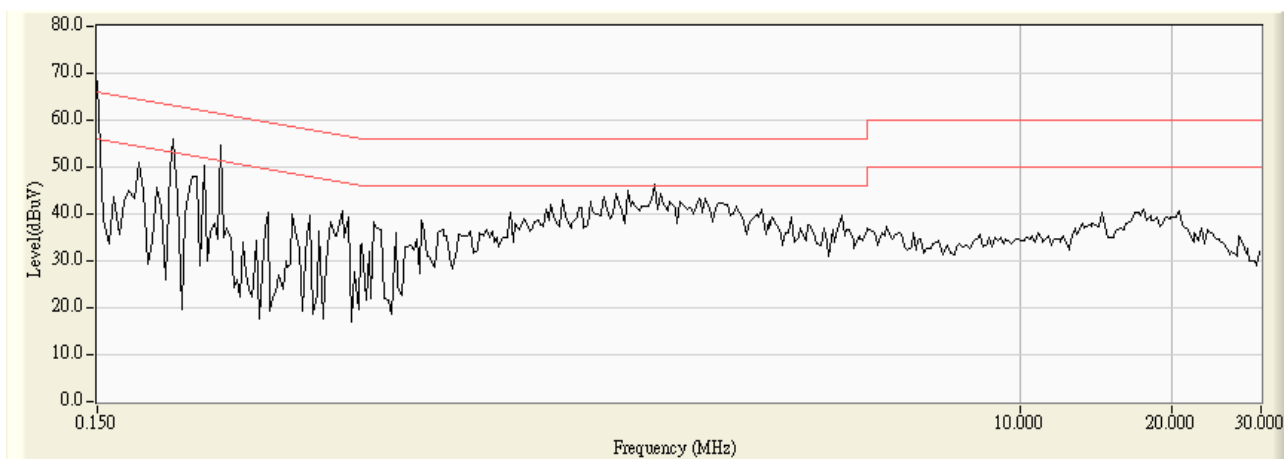


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.228	9.780	20.000	29.780	-23.991	53.771	AVERAGE
2		0.431	9.790	21.380	31.170	-16.801	47.971	AVERAGE
3		0.818	9.790	24.070	33.860	-12.140	46.000	AVERAGE
4		1.795	9.800	24.430	34.230	-11.770	46.000	AVERAGE
5	*	4.271	9.820	30.690	40.510	-5.490	46.000	AVERAGE
6		11.252	9.929	28.590	38.519	-11.481	50.000	AVERAGE

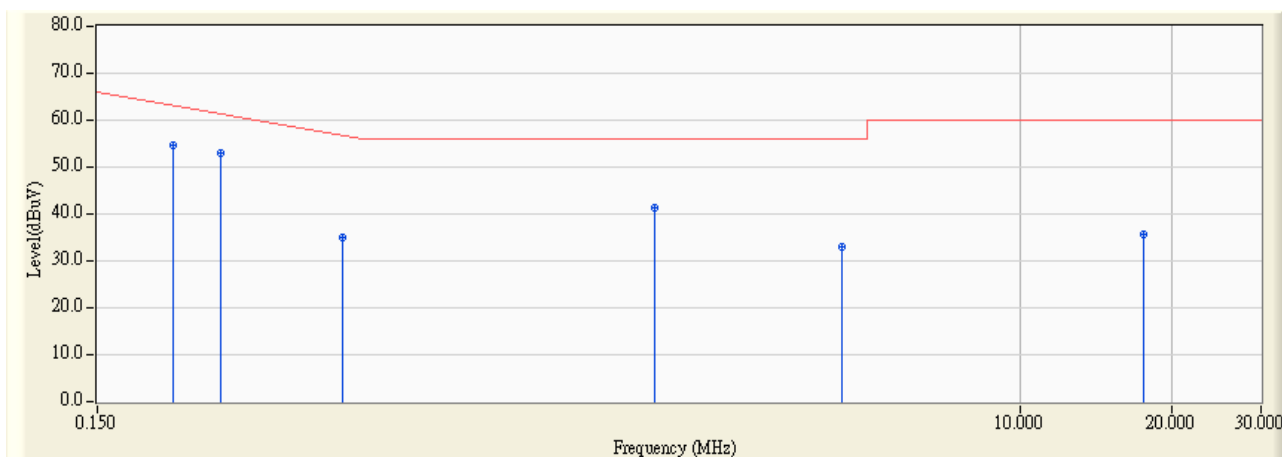
Note:

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 : SR1	Time : 2010/04/14 - 00:09
Limit : CISPR_B_00M_QP	Margin : 10
EUT : Notebook PC	Probe : ENV_216_L1 - Line1
Power : AC 120V/60Hz	Note : Mode 2



Site : SR1	Time : 2010/04/14 - 00:10
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Notebook PC	Probe : ENV_216_L1 - Line1
Power : AC 120V/60Hz	Note : Mode 2

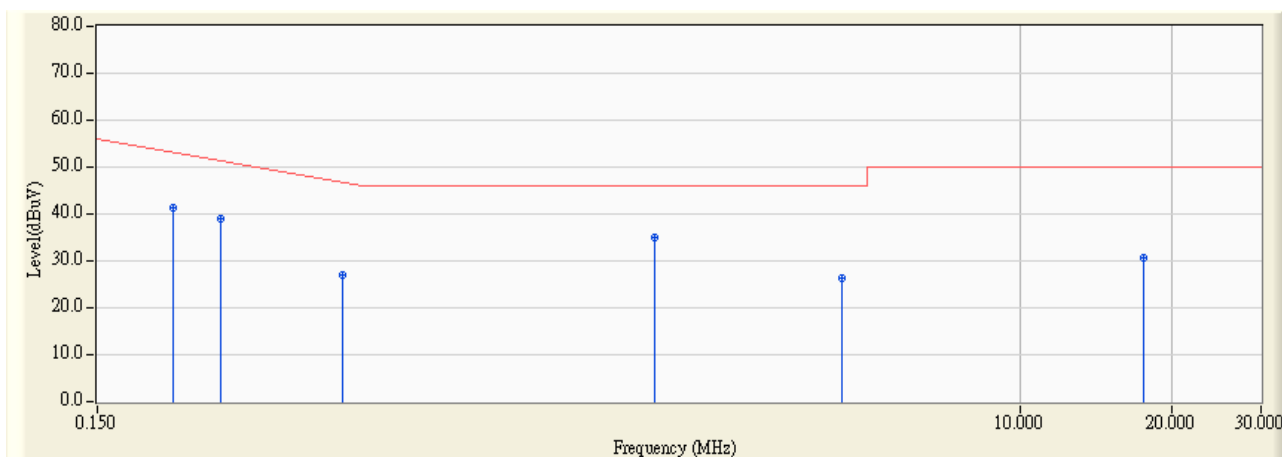


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.212	9.790	44.940	54.730	-9.499	64.229	QUASIPeAK
2		0.263	9.790	43.130	52.920	-9.851	62.771	QUASIPeAK
3		0.459	9.790	25.310	35.100	-22.071	57.171	QUASIPeAK
4		1.900	9.810	31.400	41.210	-14.790	56.000	QUASIPeAK
5		4.443	9.820	23.040	32.860	-23.140	56.000	QUASIPeAK
6		17.599	10.110	25.660	35.770	-24.230	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 : SR1	Time : 2010/04/14 - 00:10
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Notebook PC	Probe : ENV_216_L1 - Line1
Power : AC 120V/60Hz	Note : Mode 2

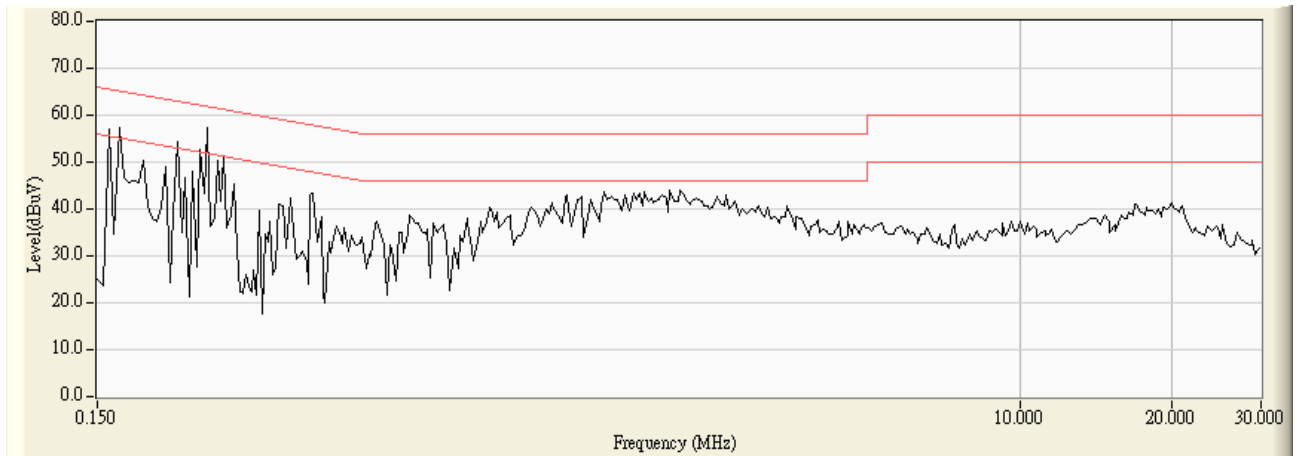


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.212	9.790	31.410	41.200	-13.029	54.229	AVERAGE
2		0.263	9.790	29.310	39.100	-13.671	52.771	AVERAGE
3		0.459	9.790	17.250	27.040	-20.131	47.171	AVERAGE
4	*	1.900	9.810	25.170	34.980	-11.020	46.000	AVERAGE
5		4.443	9.820	16.450	26.270	-19.730	46.000	AVERAGE
6		17.599	10.110	20.460	30.570	-19.430	50.000	AVERAGE

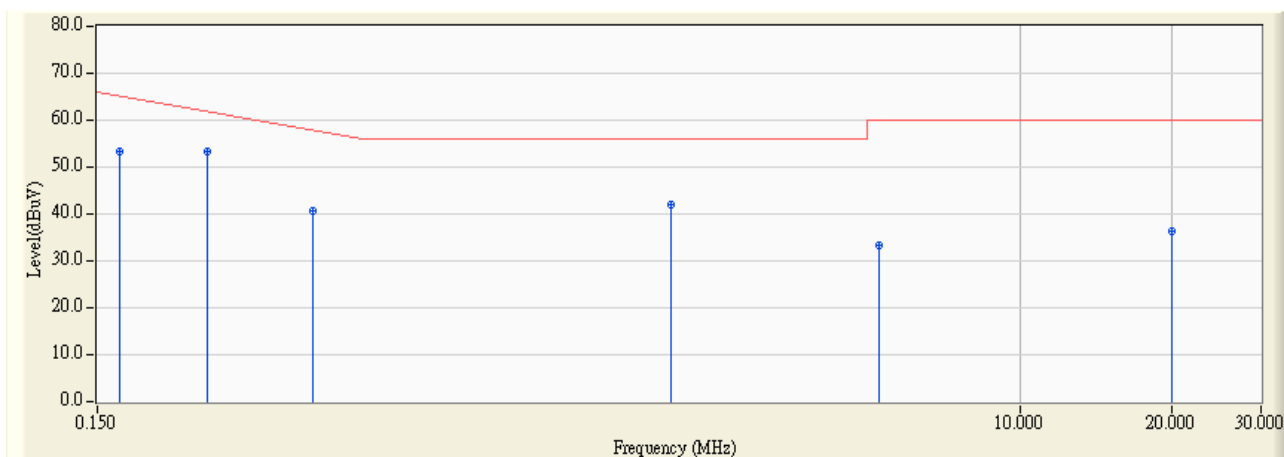
Note:

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 : SR1	Time : 2010/04/14 - 00:10
Limit : CISPR_B_00M_QP	Margin : 10
EUT : Notebook PC	Probe : ENV_216_N - Line2
Power : AC 120V/60Hz	Note : Mode 2



Site : SR1	Time : 2010/04/14 - 00:11
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Notebook PC	Probe : ENV_216_N - Line2
Power : AC 120V/60Hz	Note : Mode 2

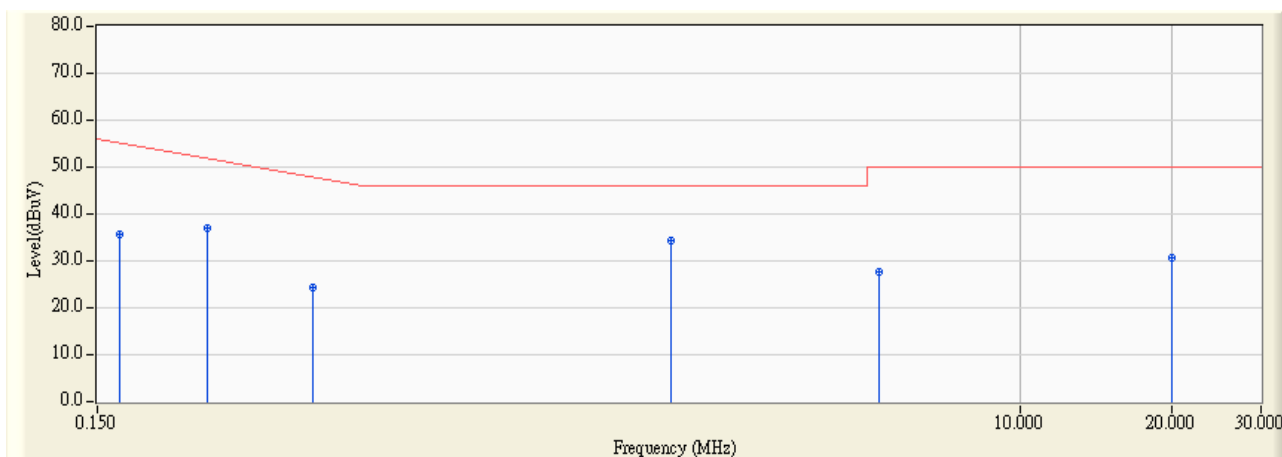


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.166	9.780	43.710	53.490	-12.053	65.543	QUASIPeAK
2	*	0.248	9.780	43.410	53.190	-10.010	63.200	QUASIPeAK
3		0.400	9.790	30.920	40.710	-18.147	58.857	QUASIPeAK
4		2.037	9.800	32.050	41.850	-14.150	56.000	QUASIPeAK
5		5.283	9.840	23.360	33.200	-26.800	60.000	QUASIPeAK
6		19.935	10.230	26.040	36.270	-23.730	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 : SR1	Time : 2010/04/14 - 00:11
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Notebook PC	Probe : ENV_216_N - Line2
Power : AC 120V/60Hz	Note : Mode 2

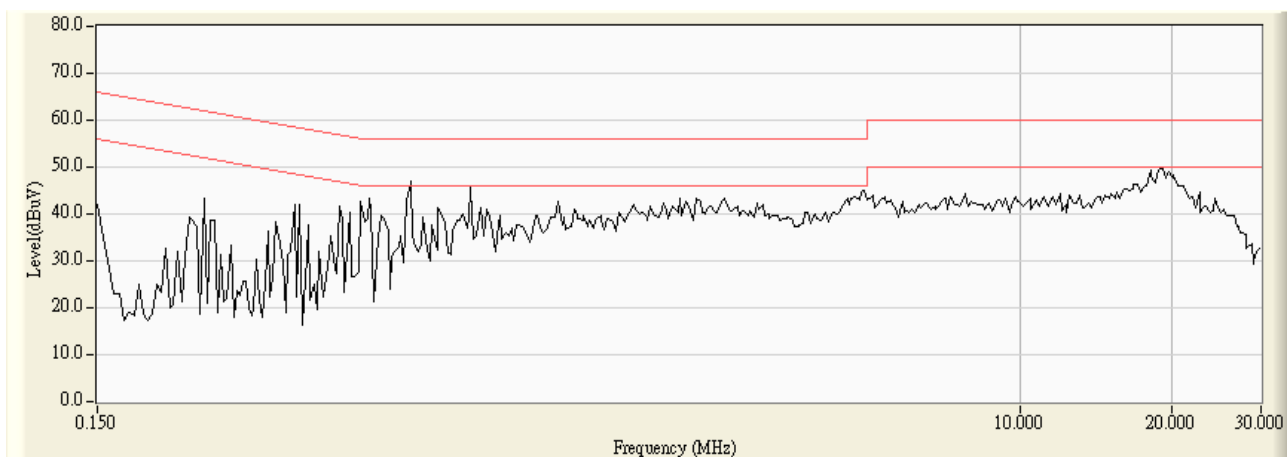


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.166	9.780	25.830	35.610	-19.933	55.543	AVERAGE
2		0.248	9.780	27.160	36.940	-16.260	53.200	AVERAGE
3		0.400	9.790	14.430	24.220	-24.637	48.857	AVERAGE
4	*	2.037	9.800	24.680	34.480	-11.520	46.000	AVERAGE
5		5.283	9.840	17.840	27.680	-22.320	50.000	AVERAGE
6		19.935	10.230	20.460	30.690	-19.310	50.000	AVERAGE

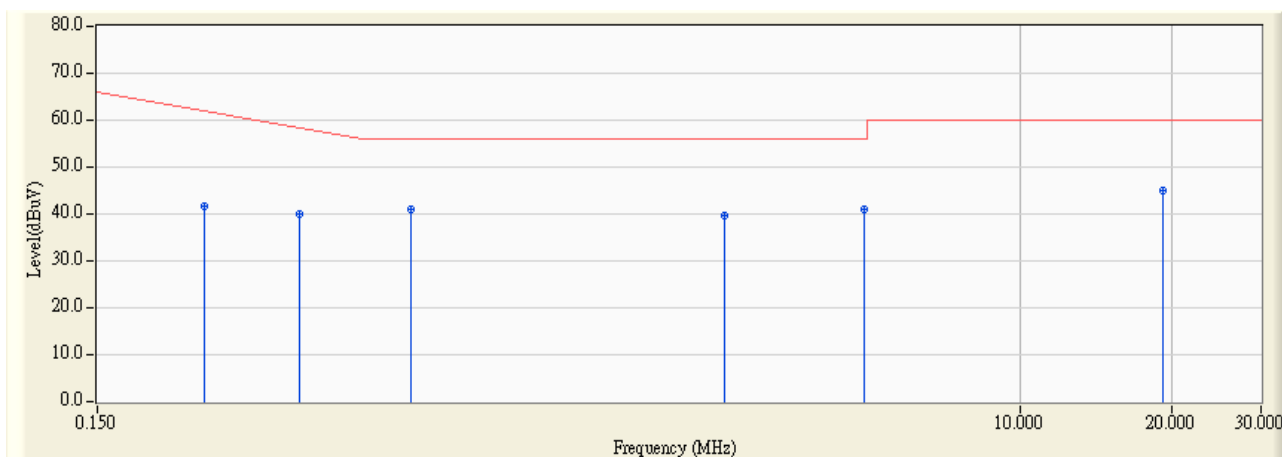
Note:

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 : SR1	Time : 2010/04/14 - 01:08
Limit : CISPR_B_00M_QP	Margin : 10
EUT : Notebook PC	Probe : ENV_216_L1 - Line1
Power : AC 120V/60Hz	Note : Mode 3



Site : SR1	Time : 2010/04/14 - 01:08
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Notebook PC	Probe : ENV_216_L1 - Line1
Power : AC 120V/60Hz	Note : Mode 3

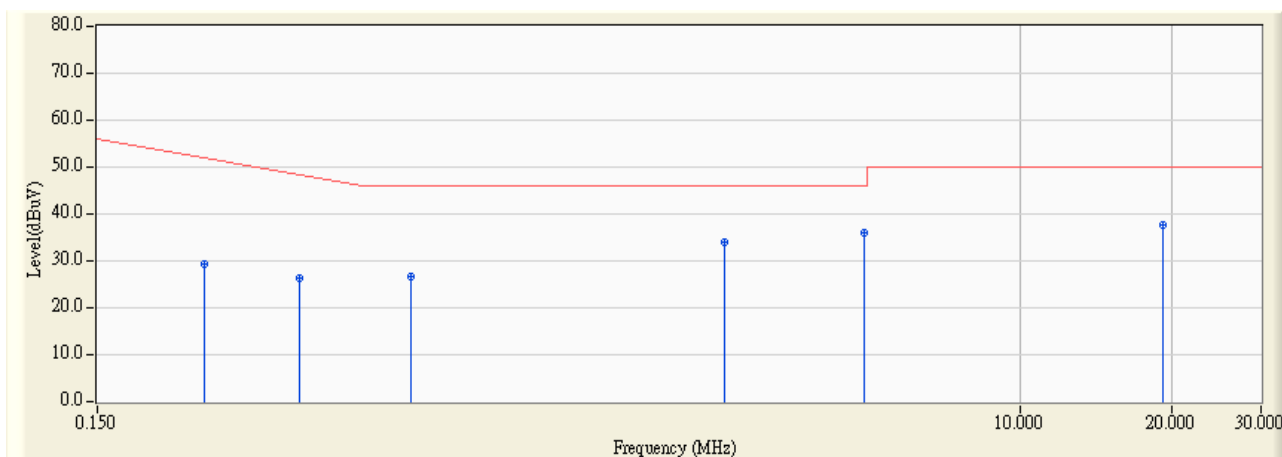


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.244	9.790	31.920	41.710	-21.604	63.314	QUASIPeAK
2		0.377	9.790	30.080	39.870	-19.644	59.514	QUASIPeAK
3		0.627	9.790	31.260	41.050	-14.950	56.000	QUASIPeAK
4		2.603	9.810	29.700	39.510	-16.490	56.000	QUASIPeAK
5	*	4.935	9.830	31.250	41.080	-14.920	56.000	QUASIPeAK
6		19.252	10.110	34.760	44.870	-15.130	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 : SR1	Time : 2010/04/14 - 01:08
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Notebook PC	Probe : ENV_216_L1 - Line1
Power : AC 120V/60Hz	Note : Mode 3

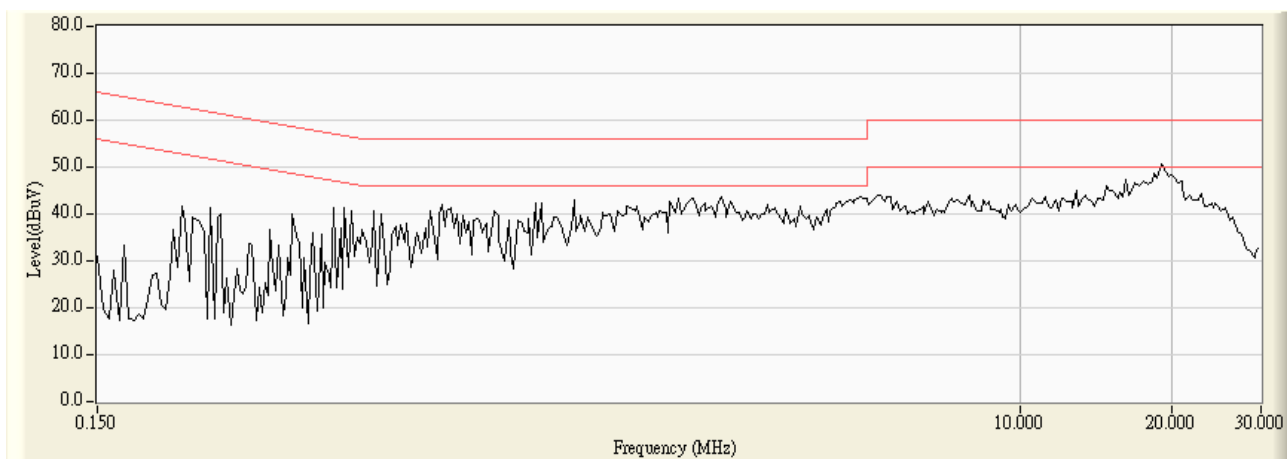


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.244	9.790	19.460	29.250	-24.064	53.314	AVERAGE
2		0.377	9.790	16.560	26.350	-23.164	49.514	AVERAGE
3		0.627	9.790	16.780	26.570	-19.430	46.000	AVERAGE
4		2.603	9.810	24.350	34.160	-11.840	46.000	AVERAGE
5	*	4.935	9.830	26.260	36.090	-9.910	46.000	AVERAGE
6		19.252	10.110	27.670	37.780	-12.220	50.000	AVERAGE

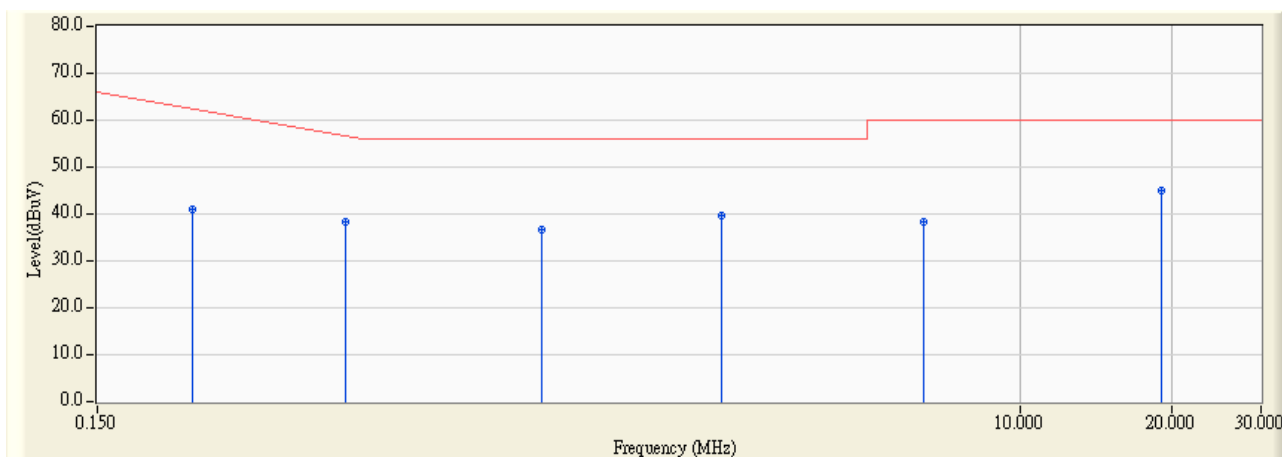
Note:

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 : SR1	Time : 2010/04/14 - 01:10
Limit : CISPR_B_00M_QP	Margin : 10
EUT : Notebook PC	Probe : ENV_216_N - Line2
Power : AC 120V/60Hz	Note : Mode 3



Site : SR1	Time : 2010/04/14 - 01:10
Limit : CISPR_B_00M_QP	Margin : 0
EUT : Notebook PC	Probe : ENV_216_N - Line2
Power : AC 120V/60Hz	Note : Mode 3

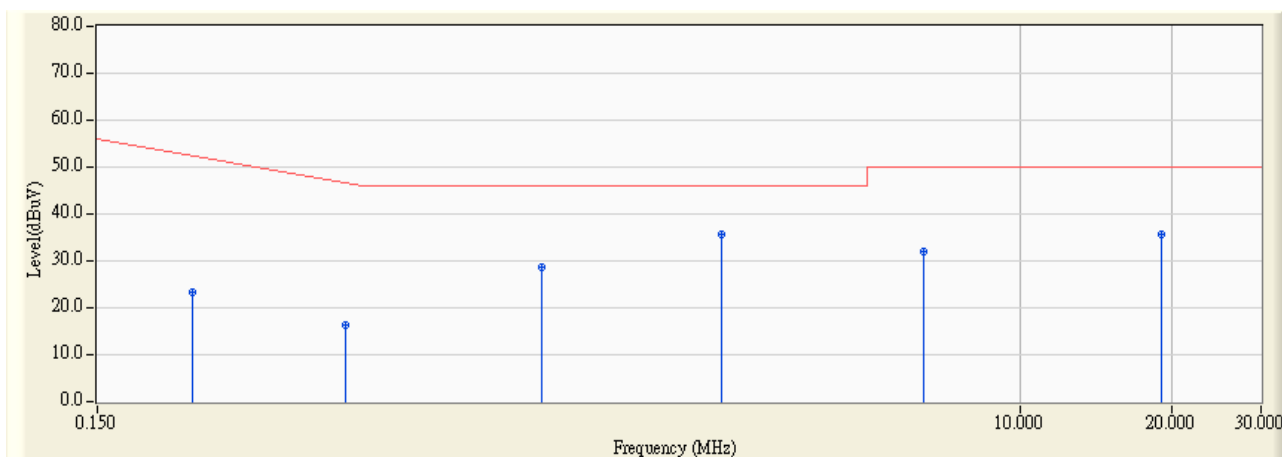


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.232	9.780	31.260	41.040	-22.617	63.657	QUASIPeAK
2		0.463	9.790	28.530	38.320	-18.737	57.057	QUASIPeAK
3		1.134	9.790	26.850	36.640	-19.360	56.000	QUASIPeAK
4		2.576	9.810	29.780	39.590	-16.410	56.000	QUASIPeAK
5		6.459	9.850	28.420	38.270	-21.730	60.000	QUASIPeAK
6	*	19.084	10.220	34.770	44.990	-15.010	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 : SR1	Time : 2010/04/14 - 01:10
Limit : CISPR_B_00M_AV	Margin : 0
EUT : Notebook PC	Probe : ENV_216_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		0.232	9.780	13.580	23.360	-30.297	53.657	AVERAGE
2		0.463	9.790	6.500	16.290	-30.767	47.057	AVERAGE
3		1.134	9.790	18.730	28.520	-17.480	46.000	AVERAGE
4	*	2.576	9.810	25.780	35.590	-10.410	46.000	AVERAGE
5		6.459	9.850	22.200	32.050	-17.950	50.000	AVERAGE
6		19.084	10.220	25.390	35.610	-14.390	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. Test Photograph

Test Mode : Mode 1

Description : Front View of Conducted Test



Test Mode : Mode 1

Description : Back View of Conducted Test



Test Mode : Mode 2

Description : Front View of Conducted Test



Test Mode : Mode 2

Description : Back View of Conducted Test



Test Mode : Mode 3

Description : Front View of Conducted Test



Test Mode : Mode 3

Description : Back View of Conducted Test



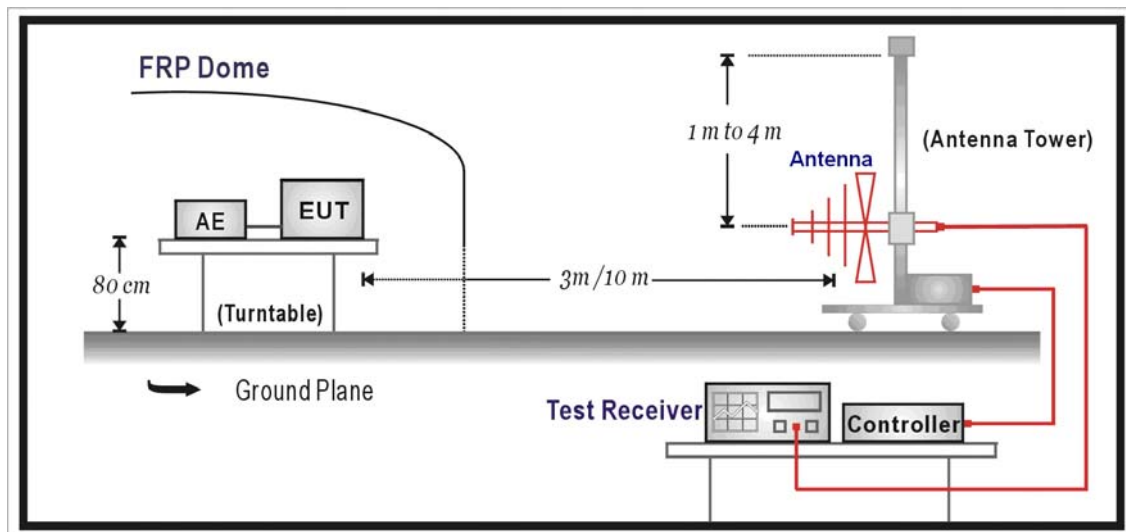
4. Radiated Emission

4.1. Test Specification

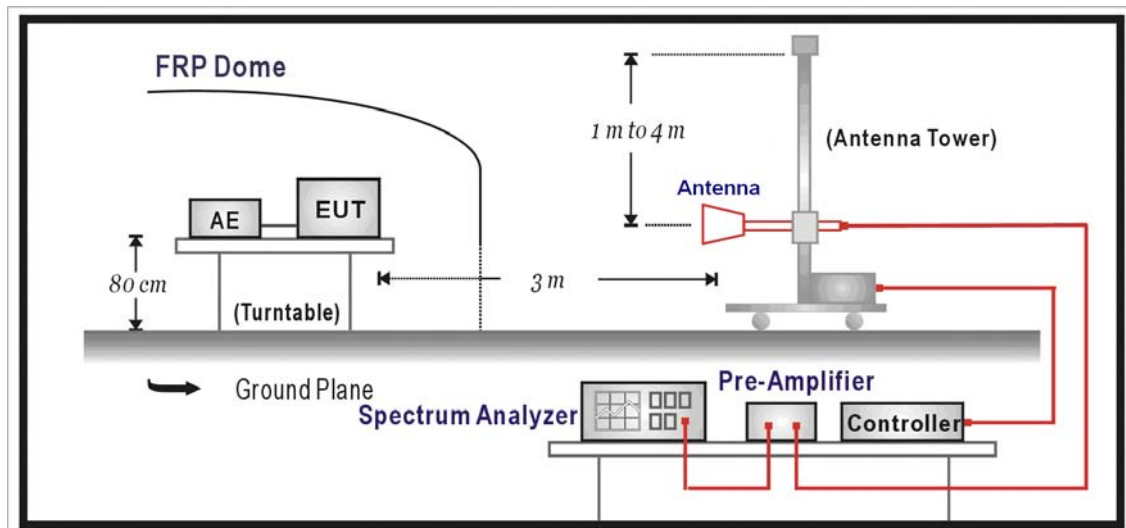
According to EMC Standard : FCC Part 15 Subpart B, ANSI C63.4

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 th 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.

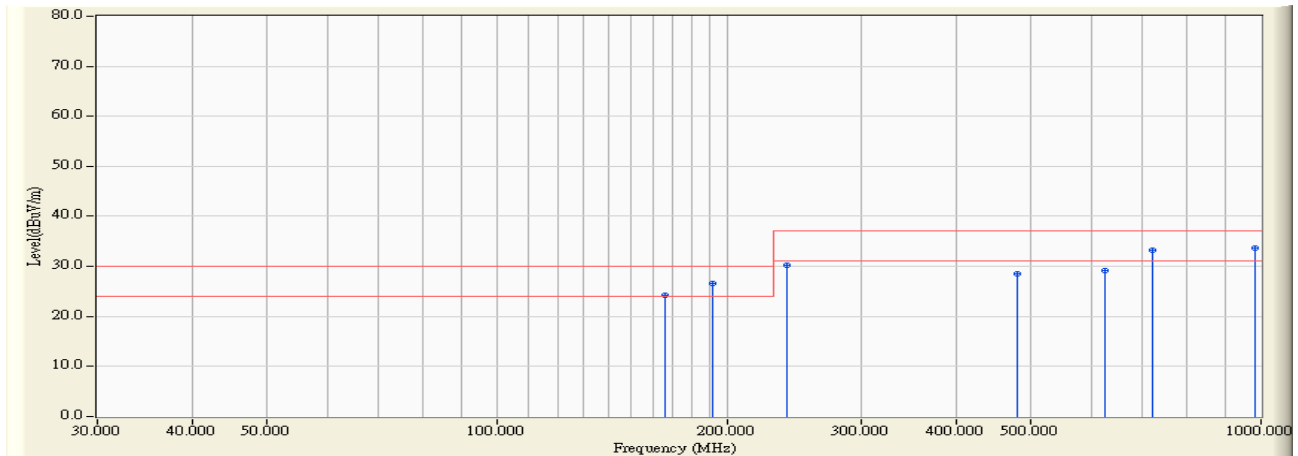
For class A, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and above 1GHz.

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 : 2010/04/12 - 12:00
Limit : CISPR_B_10M_QP	Margin : 6
EUT : Notebook PC	Probe : Site3_CBL6112_10M_0811 - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1

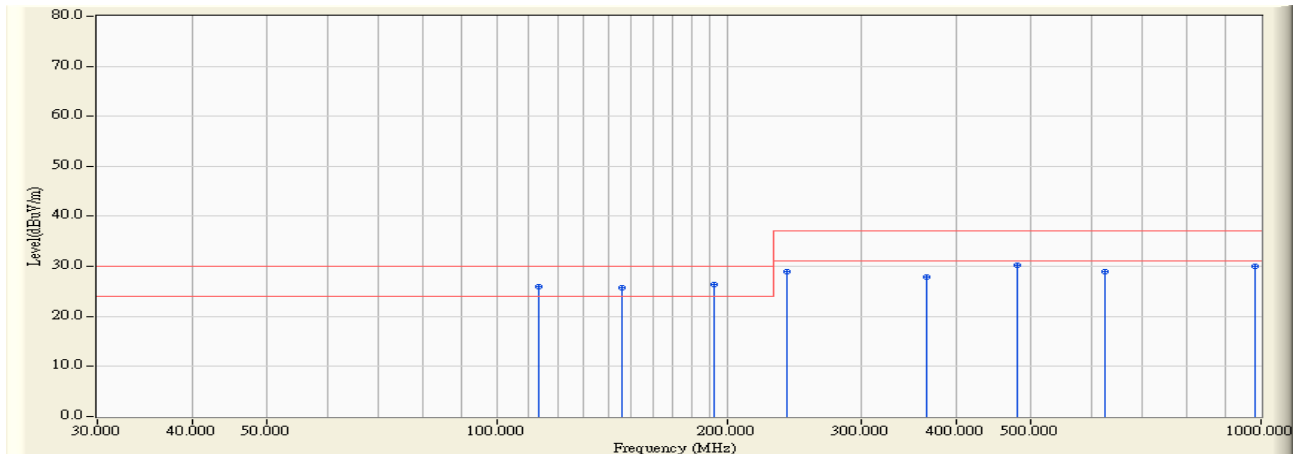


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		165.920	12.975	11.300	24.275	-5.725	30.000	QUASIPeAK
2		191.600	12.596	13.900	26.496	-3.504	30.000	QUASIPeAK
3		240.000	15.590	14.700	30.290	-6.710	37.000	QUASIPeAK
4		480.024	21.668	6.900	28.569	-8.431	37.000	QUASIPeAK
5		625.037	24.054	5.100	29.154	-7.846	37.000	QUASIPeAK
6		720.000	25.170	8.000	33.170	-3.830	37.000	QUASIPeAK
7	*	984.055	28.812	4.800	33.611	-3.389	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 : 2010/04/12 - 11:54
Limit : CISPR_B_10M_QP	Margin : 6
EUT : Notebook PC	Probe : Site3_CBL6112_10M_0811 - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1

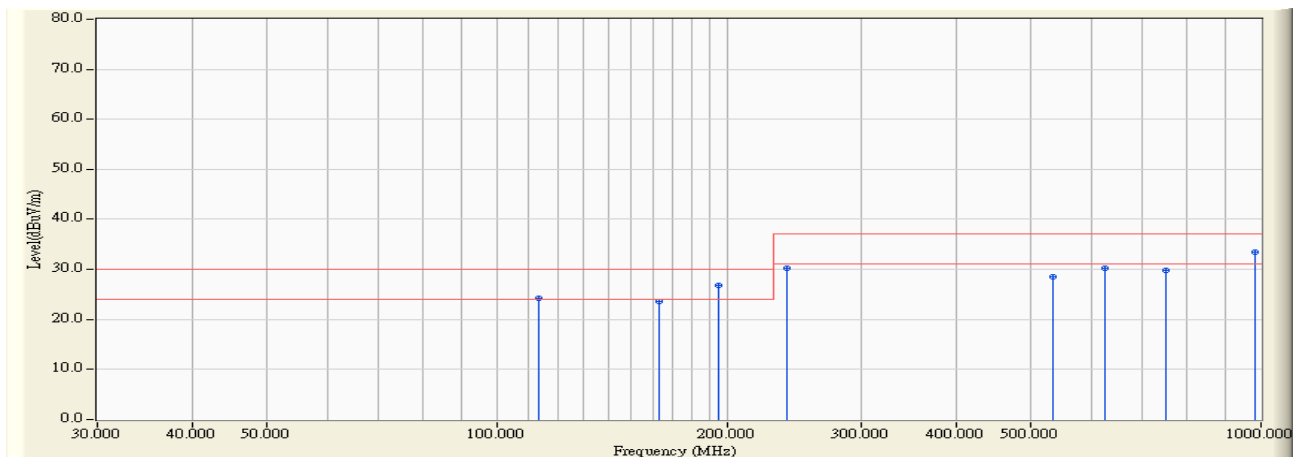


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		113.400	14.990	11.000	25.989	-4.011	30.000	QUASIPeAK
2		145.800	14.071	11.600	25.671	-4.329	30.000	QUASIPeAK
3	*	192.120	12.601	13.700	26.301	-3.699	30.000	QUASIPeAK
4		240.000	15.590	13.400	28.990	-8.010	37.000	QUASIPeAK
5		364.600	19.138	8.700	27.838	-9.162	37.000	QUASIPeAK
6		480.003	21.668	8.500	30.168	-6.832	37.000	QUASIPeAK
7		625.040	24.054	4.900	28.954	-8.046	37.000	QUASIPeAK
8		984.056	28.812	1.200	30.011	-6.989	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 : 2010/04/12 - 13:49
Limit : CISPR_B_10M_QP	Margin : 6
EUT : Notebook PC	Probe : Site3_CBL6112_10M_0811 - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2

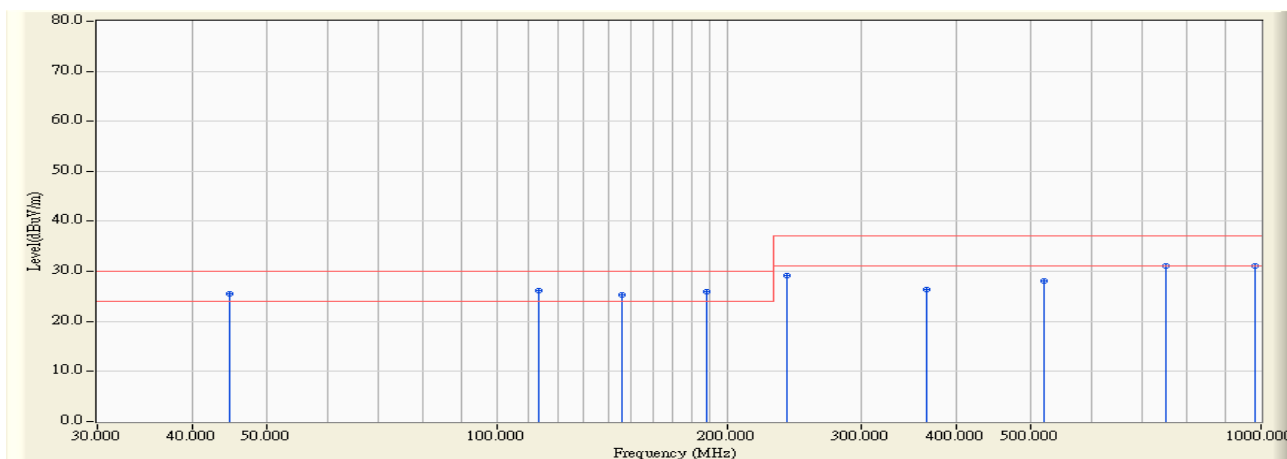


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		113.400	14.990	9.200	24.189	-5.811	30.000	QUASIPeAK
2		162.750	13.105	10.500	23.604	-6.396	30.000	QUASIPeAK
3	*	195.200	12.646	14.200	26.846	-3.154	30.000	QUASIPeAK
4		240.000	15.590	14.600	30.190	-6.810	37.000	QUASIPeAK
5		533.155	22.634	5.900	28.534	-8.466	37.000	QUASIPeAK
6		625.038	24.054	6.200	30.254	-6.746	37.000	QUASIPeAK
7		750.046	25.603	4.300	29.903	-7.097	37.000	QUASIPeAK
8		984.052	28.812	4.600	33.411	-3.589	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 : 2010/04/12 - 13:37
Limit : CISPR_B_10M_QP	Margin : 6
EUT : Notebook PC	Probe : Site3_CBL6112_10M_0811 - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2

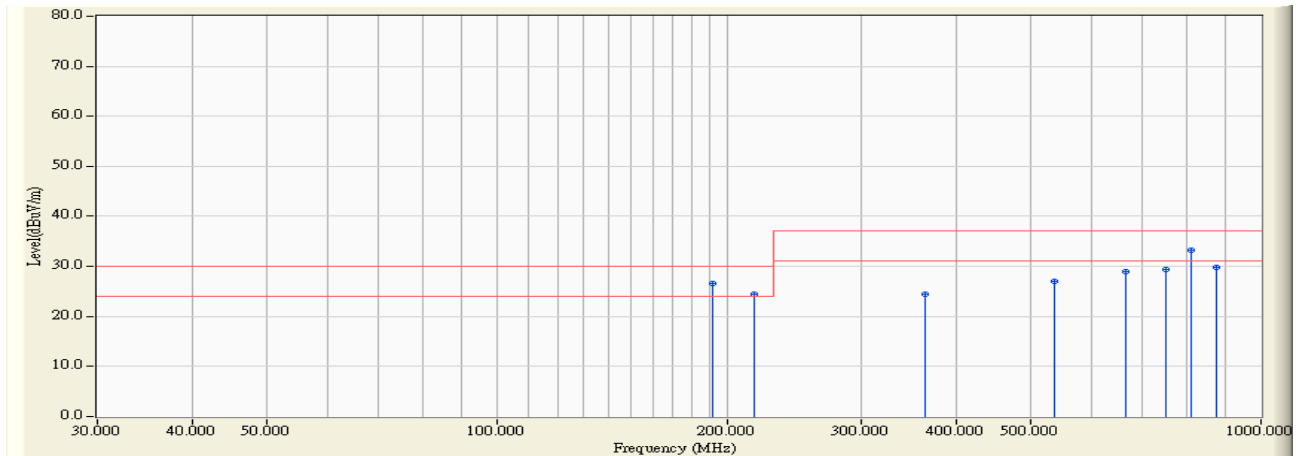


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		44.630	14.358	11.200	25.558	-4.442	30.000	QUASIPeAK
2	*	113.398	14.990	11.100	26.089	-3.911	30.000	QUASIPeAK
3		145.800	14.071	11.200	25.271	-4.729	30.000	QUASIPeAK
4		188.440	12.546	13.400	25.947	-4.053	30.000	QUASIPeAK
5		240.000	15.590	13.600	29.190	-7.810	37.000	QUASIPeAK
6		365.000	19.144	7.200	26.344	-10.656	37.000	QUASIPeAK
7		519.940	22.411	5.600	28.011	-8.989	37.000	QUASIPeAK
8		750.050	25.603	5.600	31.203	-5.797	37.000	QUASIPeAK
9		984.058	28.812	2.200	31.011	-5.989	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 : 2010/04/07 - 11:53
Limit : CISPR_B_10M_QP	Margin : 6
EUT : Notebook PC	Probe : Site3_CBL6112_10M_0811 - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3

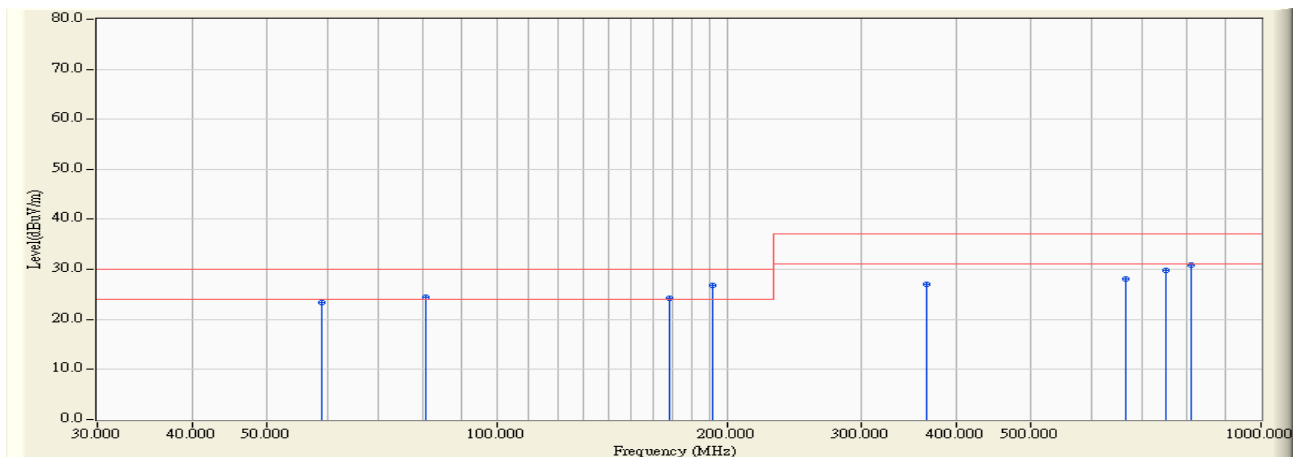


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	191.994	12.600	14.100	26.700	-3.300	30.000	QUASIPeAK
2		216.830	13.922	10.500	24.423	-5.577	30.000	QUASIPeAK
3		363.300	19.098	5.300	24.398	-12.602	37.000	QUASIPeAK
4		535.580	22.674	4.400	27.074	-9.926	37.000	QUASIPeAK
5		666.445	24.511	4.500	29.011	-7.989	37.000	QUASIPeAK
6		749.990	25.603	3.700	29.303	-7.697	37.000	QUASIPeAK
7		809.988	26.451	6.700	33.151	-3.849	37.000	QUASIPeAK
8		874.990	27.322	2.400	29.722	-7.278	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 : 2010/04/07 - 11:55
Limit : CISPR_B_10M_QP	Margin : 6
EUT : Notebook PC	Probe : Site3_CBL6112_10M_0811 - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3

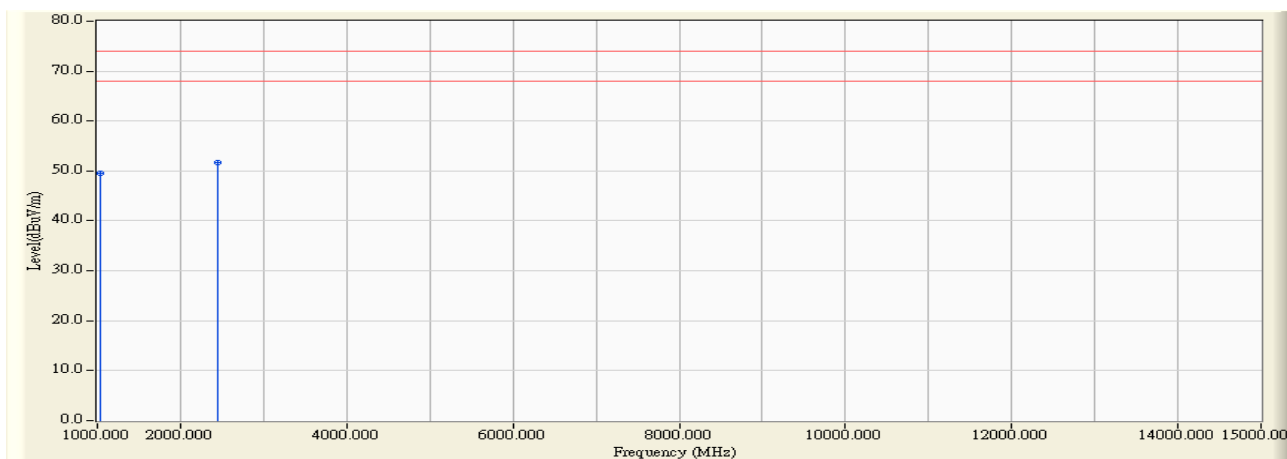


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		58.915	7.959	15.500	23.459	-6.541	30.000	QUASIPeAK
2		80.540	11.011	13.500	24.511	-5.489	30.000	QUASIPeAK
3		167.998	12.890	11.400	24.289	-5.711	30.000	QUASIPeAK
4	*	191.996	12.600	14.300	26.900	-3.100	30.000	QUASIPeAK
5		365.700	19.153	7.800	26.952	-10.048	37.000	QUASIPeAK
6		666.463	24.511	3.500	28.011	-8.989	37.000	QUASIPeAK
7		749.991	25.603	4.300	29.903	-7.097	37.000	QUASIPeAK
8		809.988	26.451	4.500	30.951	-6.049	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 : 2010/04/13 - 22:20
Limit : FCC_B_(Above_1G)_03M_PK	Margin : 6
EUT : Notebook PC	Probe : 9120D_1-18G_Horn - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1

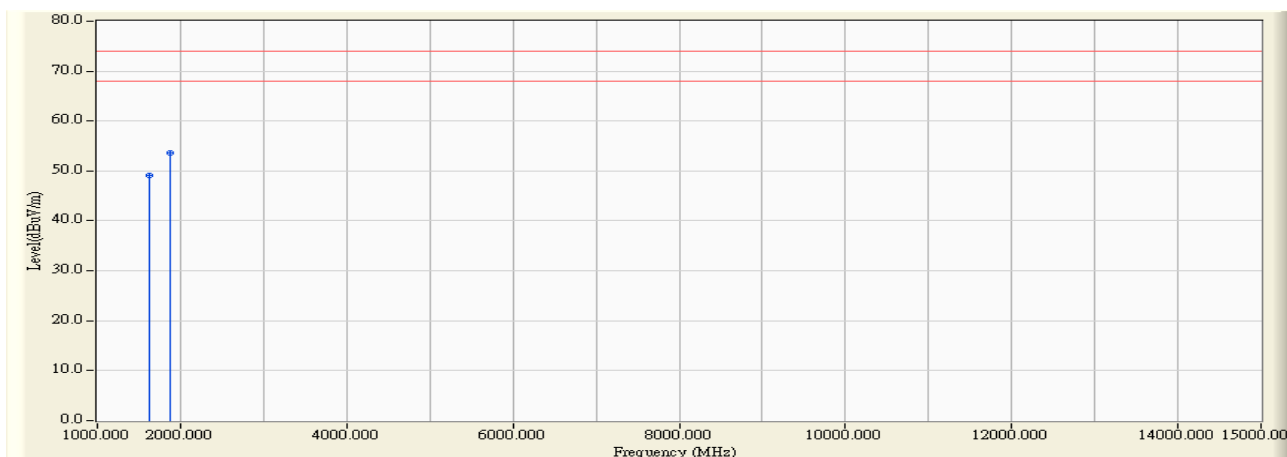


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1040.000	-6.455	56.100	49.645	-24.355	74.000	PEAK
2	*	2452.000	-1.757	53.400	51.643	-22.357	74.000	PEAK

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 : 2010/04/13 - 22:26
Limit : FCC_B_(Above_1G)_03M_PK	Margin : 6
EUT : Notebook PC	Probe : 9120D_1-18G_Horn - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1

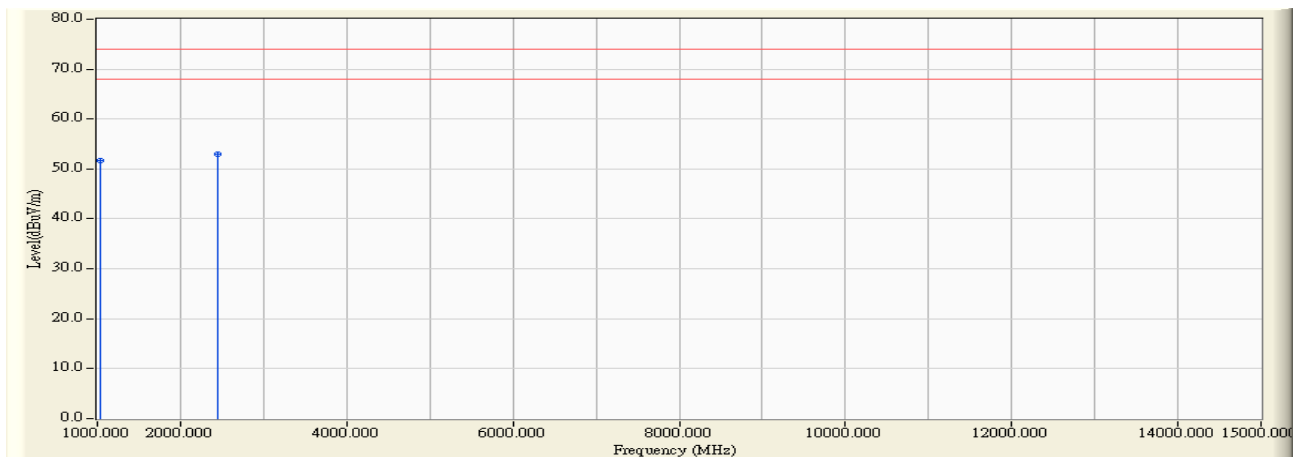


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1617.000	-4.440	53.600	49.160	-24.840	74.000	PEAK
2	*	1869.000	-4.028	57.700	53.672	-20.328	74.000	PEAK

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 : 2010/04/13 - 22:32
Limit : FCC_B_(Above_1G)_03M_PK	Margin : 6
EUT : Notebook PC	Probe : 9120D_1-18G_Horn - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2

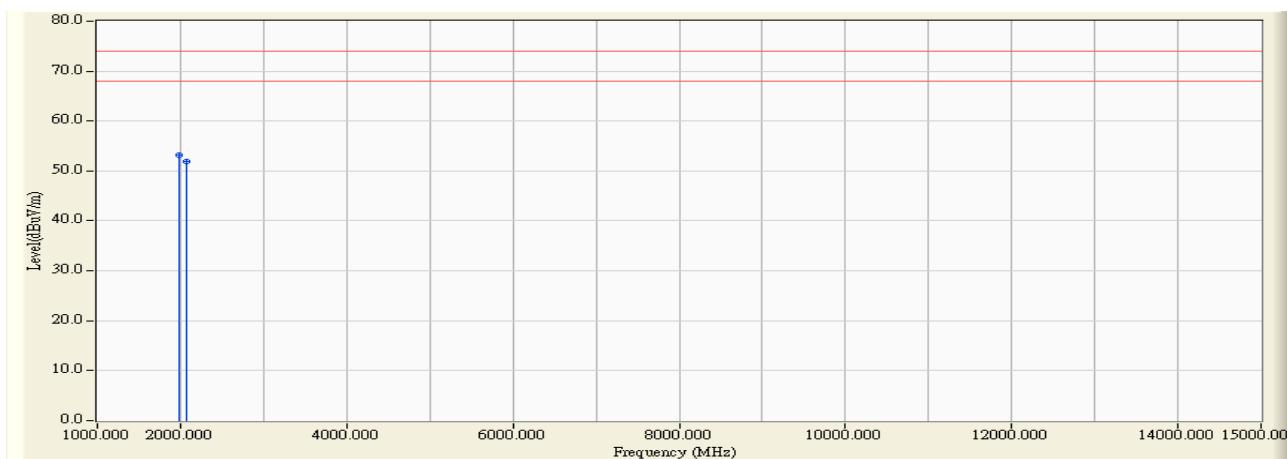


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1030.000	-6.492	58.200	51.708	-22.292	74.000	PEAK
2	*	2452.000	-1.757	54.700	52.943	-21.057	74.000	PEAK

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 : 2010/04/13 - 22:37
Limit : FCC_B_(Above_1G)_03M_PK	Margin : 6
EUT : Notebook PC	Probe : 9120D_1-18G_Horn - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2

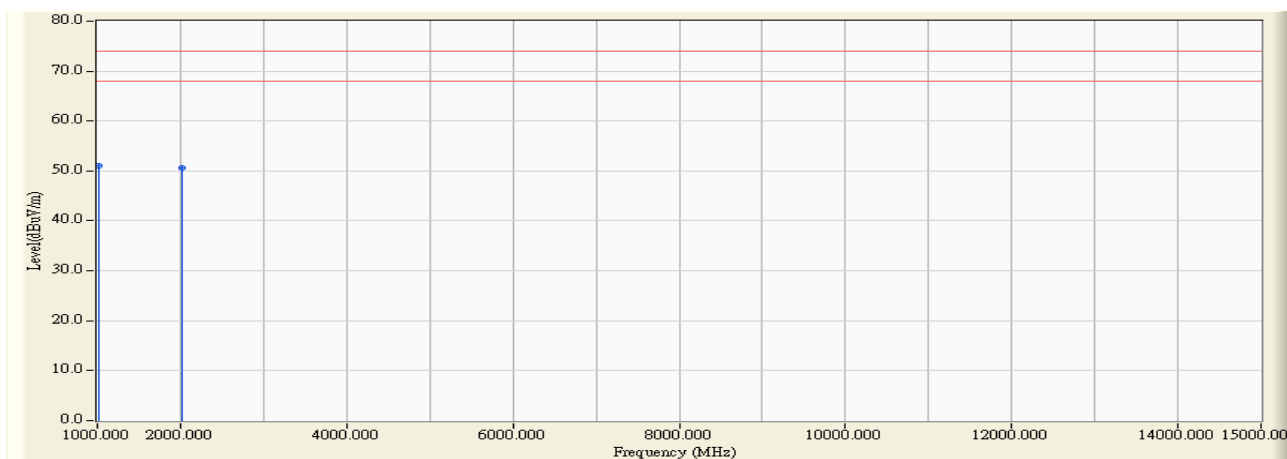


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1991.000	-3.799	57.000	53.201	-20.799	74.000	PEAK
2		2072.000	-3.493	55.300	51.806	-22.194	74.000	PEAK

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 : 2010/04/13 - 22:43
Limit : FCC_B_(Above_1G)_03M_PK	Margin : 6
EUT : Notebook PC	Probe : 9120D_1-18G_Horn - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3

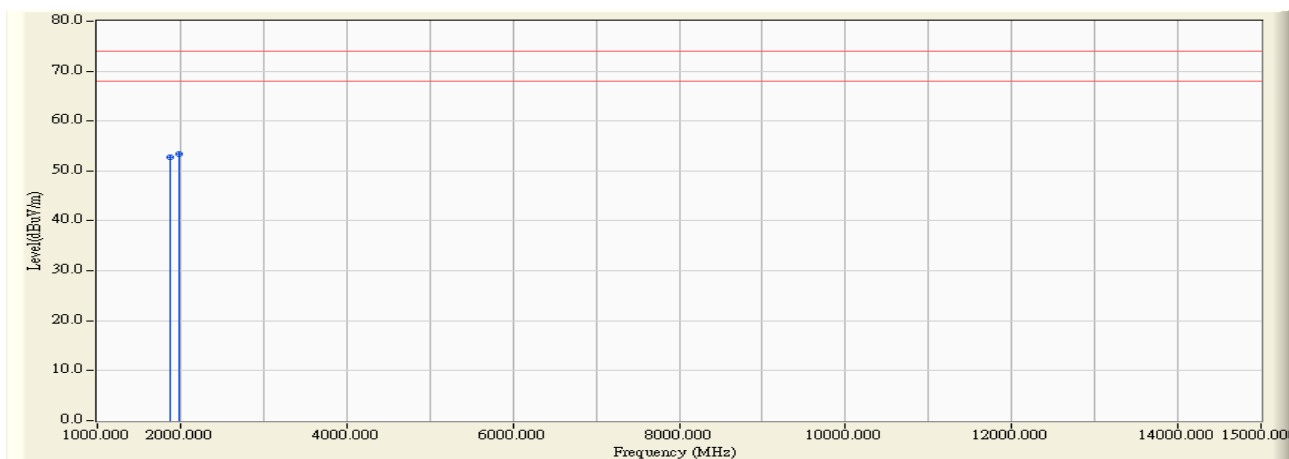


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	1010.000	-6.566	57.700	51.133	-22.867	74.000	PEAK
2		2022.000	-3.698	54.300	50.602	-23.398	74.000	PEAK

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 : 2010/04/13 - 22:48
Limit : FCC_B_(Above_1G)_03M_PK	Margin : 6
EUT : Notebook PC	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		1881.000	-4.009	56.800	52.791	-21.209	74.000	PEAK
2	*	1991.000	-3.799	57.100	53.301	-20.699	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

4.6. Test Photograph

Test Mode : Mode 1

Description : Front View of Radiated Test



Test Mode : Mode 1

Description : Back View of Radiated Test



Test Mode : Mode 1

Description : Front View of High Frequency Radiated Test



Test Mode : Mode 2

Description : Front View of Radiated Test



Test Mode : Mode 2

Description : Back View of Radiated Test



Test Mode : Mode 2

Description : Front View of High Frequency Radiated Test



Test Mode : Mode 3

Description : Front View of Radiated Test



Test Mode : Mode 3

Description : Back View of Radiated Test



Test Mode : Mode 3

Description : Front View of High Frequency Radiated Test



5. Attachment

➤ EUT Photograph

(1) EUT Photo



(2) EUT Photo



(3) EUT Photo



(4) EUT Photo



(5) EUT Photo



(6) EUT Photo



(7) EUT Photo



(8) EUT Photo



(9) EUT Photo



(10) EUT Photo



(11) EUT Photo



(12) EUT Photo



(13) EUT Photo



(14) EUT Photo



(15) EUT Photo



(16) EUT Photo



(17) EUT Photo



(18) EUT Photo

