Test Report

Product Name ：Notebook PC

Model No. ：U47A,Q400A, R404A, U47V,R404V,
U47XXXX, Q400XXXX,R404XXXX

Applicant ：ASUSTeK COMPUTER INC.

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

Date of Receipt ：2012/03/05

Issued Date ：2012/03/27

Report No. ：123067R-ITUSP01V02

Report Version ：V1.0

Test Report Certification

Issued Date : 2012/03/27
Report No. : 123067R-ITUSP01V02

Product Name	:	Notebook PC
Applicant	:	ASUSTeK COMPUTER INC.
Address	:	NO.150,Li-Te Rd.,Peitou,Taipei,Taiwan,R.O.C
Manufacturer	:	1. PEGATRON CORP TAOYUAN MFG 2. PROTEK (SHANGHAI) LTD 3.FUXIANG PRECISION INDUSTRIAL(KUNSHAN) CO LTD 4. TECH-COM(SHANGHAI) COMPUTER CO. LTD
Model No.	:	U47A,Q400A, R404A, U47V,R404V, U47XXXX, Q400XXXX,R404XXXX
EUT Rated Voltage	:	AC 100-230 V / 50-60 Hz
EUT Test Voltage	:	120V/60Hz
Trade Name	:	ASUS
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart B: 2010 Class B, ANSI C63.4: 2009
Test Result	:	Complied
Performed Location	:	Quietek Corporation (Linkou Laboratory) No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan, R.O.C. TEL:+866-2-8601-3788 / FAX:+886-2-8601-3789

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Approved By :
(Manager / Vincent Lin)

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://www.quietek.com/tw/ctg/cts/accreditations.htm
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.
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NVLAP Lab Code : 200347-0

LinKou Testing Laboratory :

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NVLAP Lab Code: 200533-0

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No. 99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech Development Zone., Suzhou,China.
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1. General Information

1.1. EUT Description

Product Name	Notebook PC
Trade Name	ASUS
Model No.	U47A,Q400A, R404A, U47V,R404V, U47XXXX, Q400XXXX,R404XXXX

Note: The EUT is including eight models for different marketing requirement.

Keypart

Device	Vendor	Model Name	Description
Motherboard	ASUS	U47VC MAIN BOARD	
CPU	Intel	INT I3-3110M 2.4G/3M QC4V BGA	CPU AV8063801032800 920268 QS
		INT I5-3210M 2.5G/3M QC4T BGA	CPU AV8063801032502 920266 QS
		INT I5-3320M 2.6G/3M QC4R BGA	CPU AV8063801031900 920264 QS
		INT I5-3360M 2.8G/3M QC4P BGA	CPU AV8063801031102 920262 QS
		INT I7-3520M 2.9G/4M QC4M BGA	CPU AV8063801028803 920260 QS
LCD (ID)	IVO	P140NWR1 R0	
	IVO	P140NWR1 R1	
DIMM	SAMSUNG	M471B5773DH0-CK0	DDR3 1600 SO-D 2GB 204P
	ASINT	SSZ302G08-GGNED	DDRIII 1600 SO-DIM 2GB 204P
	HYNIX	HMT351S6CFR8C-PB	DDR3 1600 SO-DIM 4GB 204P
	ELPIDA	EBJ40UG8BBU0-GN-F	DDR3 1600 SO-DIM 4GB 204P
	SAMSUNG	M471B5273DH0-CK0	DDR3 1600 SO-D 4GB 204P
	HYNIX	HMT325S6CFR8C-PB	DDR3 1600 SO-DIM 2GB 204P
HDD	WD	WD3200BPVT-80JJ5T0	SATA ML320S-AF2 320G 5400R 2.5
	SEAGATE	ST320LT020	SATA SAPTA15 320G 5400R 2.5'
	SEAGATE	ST9500325AS	SATA WYATT 500G 5400R 2.5'
	HITACHI	HTS545050A7E380	SATA JAGUAR-B7 500G 5400R 2.5'
	HGST	HTS547575A9E384	SATA JET-B 750G 5400R 2.5'
	SEAGATE	ST9750423AS	SATA DESARU 750G 5400R 2.5'
	WD	WD10JPVT-80A1YT0	SATA ML500M 1TB 5400R 2.5'
	SEAGATE	ST1000LM024	SATA M8 1TB 5400R 2.5'
	SEAGATE	ST9500423AS	SATA DESARU 500G 7200R 2.5'
	WD	5000BPKT-80PK4T0	SATA MX375M 500G 7200R 2.5'
	SEAGATE	ST9750420AS	SATA DESARU 750G 7200R 2.5'
	WD	7500BPKT-80PK4T0	SATA MX375M 750G 7200R 2.5'
ODD	PANASONIC	UJ8B2	DVD S-MULTI DL 8X/6X/8X6X/5X

	HLDS	GU60N	DVD S-MULTI DL 8X/6X/8X6X/5X
WIFI Only	Atheros	AR5B125(AW-NE186H)	802.11B/G/N 1*1 WLAN HMC
	INTEL	105BNHMW	CENTRINO WIRELESS-N 105
WIFI+BT Combo	Atheros	AR5B225(AW-NB097H)	802.11B/G/N WLAN+BT4.0+HS R0
	INTEL	2230BNHMW	CENTRINO WIRELESS-N 2230
Battery	Simplo Technology Co Ltd (ASUS)	A32-U47	10.8Vdc,5200mAh/56Wh
	Simplo Technology Co Ltd (ASUS)	A32-U47	11.25Vdc,5900mA /66Wh
Camera	Azurewave	AM-VS053	CAMERA 0.3M FIX 3.3V D MIC CL
	CHICONY	CKFB1D321003870LH	CAMERA HD FIX 3.3V D MIC CL
TP	ELAN	SA461I-1000	TOUCHPAD FOR K45
Keyboard	ASUS	0KN0-MF1US13	KEYBOARD 302MM BL WOF(US)
	ASUS	0KN0-MF2UK13	
Adapter	DELTA	ADP-90CD CB	POWER ADAPTER 90W19V (2PIN)
	DELTA	ADP-90CD DB	POWER ADAPTER 90W 19V (3PIN)
	ENERTRONIX	EXA0904YH	POWER ADAPTER 90W19V 3PIN(BLK)

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: LCD(1366*768@60Hz)+VGA(1366*768@60Hz) Mode 2: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz) Mode 3: LCD(1366*768@60Hz)+VGA(1366*768@60Hz) Mode 4: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz) Mode 5: LCD(1366*768@60Hz)+VGA(1366*768@60Hz) Mode 6: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz) Mode 7: LCD(1366*768@60Hz)+VGA(1366*768@60Hz) Mode 8: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz) Mode 9: LCD(1366*768@60Hz)+VGA(1366*768@60Hz) Mode 10: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz) Mode 11: LCD(1366*768@60Hz)+VGA(1366*768@60Hz) Mode 12: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	
Final Test Mode	
Emission	Mode 2: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz) Mode 4: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz) Mode 6: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz) Mode 7: LCD(1366*768@60Hz)+VGA(1366*768@60Hz) Mode 10: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz) Mode 11: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)

Item	Mode 1	Mode 2
Motherboard	ASUS U47VC MAIN BOARD	ASUS U47VC MAIN BOARD
CPU	INT I7-3520M 2.9G/4M QC4M BGA	INT I5-3360M 2.8G/3M QC4P BGA
Memory	HYNIX/HMT351S6CFR8C-PB	SAMSUNG/M471B5273DH0-CK0
HDD	SEAGATE/ST1000LM024	WD/WD3200BPVT-80JJ5T0
ODD	PANASONIC/UJ8B2	PANASONIC/UJ8B2
WIFI Only	N/A	N/A
WIFI+BT Combo	Atheros/AR5B225	Atheros/AR5B225
LCD	IVO/P140NWR1 R0	IVO/P140NWR1 R1
Camera	Azurewave/AM-VS053	CHICONY/CKFB1D321003870LH
Touch Pad	ELAN/SA461I-1000	ELAN/SA461I-1000
KeyBoard	0KN0-MF1US13	0KN0-MF2UK13
HDMI to VGA Connector	Yes	No
Battery	SIMPLO TECHNOLOGY CO LTD (ASUS)/A32-U47,11.25V	SIMPLO TECHNOLOGY CO LTD (ASUS)/ A32-U47,11.25V
Adapter	DELTA/ADP-90CD CB	DELTA/ADP-90CD CB

Item	Mode 3	Mode 4
Motherboard	ASUS U47VC MAIN BOARD	ASUS U47VC MAIN BOARD
CPU	INT I5-3320M 2.6G/3M QC4R BGA	INT I5-3210M 2.5G/3M QC4T BGA
Memory	HYNIX/HMT325S6CFR8C-PB	SAMSUNG/M471B5773DH0-CK0
HDD	SEAGATE/ST320LT020	HGST/HTS547575A9E384
ODD	PANASONIC/UJ8B2	HLDS/GU60N
WIFI Only	N/A	AZWAVE/AW-NE186H 2ANT.
WIFI+BT Combo	Atheros/AR5B225	N/A
LCD	IVO/P140NWR1 R0	IVO/P140NWR1 R1
Camera	Azurewave/AM-VS053	CHICONY/CKFB1D321003870LH
Touch Pad	ELAN/SA461I-1000	ELAN/SA461I-1000
KeyBoard	0KN0-MF1US13	0KN0-MF2UK13
HDMI to VGA Connector	Yes	No
Battery	SIMPLO TECHNOLOGY CO LTD (ASUS)/ A32-U47,11.25V	SIMPLO TECHNOLOGY CO LTD (ASUS)/ A32-U47,10.8V
Adapter	ENERTRONIX/EXA0904YH	ENERTRONIX/EXA0904YH

Item	Mode 5	Mode 6
Motherboard	ASUS U47VC MAIN BOARD	ASUS U47VC MAIN BOARD
CPU	INT I3-3110M 2.4G/3M QC4V BGA	INT I3-3110M 2.4G/3M QC4V BGA
Memory	SAMSUNG/M471B5773DH0-CK0	SAMSUNG/M471B5773DH0-CK0
HDD	SEAGATE/ST9500325AS	HITACHI/HTS545050A7E380
ODD	HLDS/GU60N	HLDS/GU60N
WIFI Only	Atheros/AR5B125	Atheros/AR5B125
WIFI+BT Combo	N/A	N/A
LCD	IVO/P140NWR1 R0	IVO/P140NWR1 R1
Camera	Azurewave/AM-VS053	CHICONY/CKFB1D321003870LH
Touch Pad	ELAN/SA461I-1000	ELAN/SA461I-1000
KeyBoard	0KN0-MF1US13	0KN0-MF2UK13
HDMI to VGA Connector	Yes	No
Battery	SIMPLO TECHNOLOGY CO LTD (ASUS)/ A32-U47/3S2P,10.8V	SIMPLO TECHNOLOGY CO LTD (ASUS)/ A32-U47,10.8V
Adapter	DELTA/ADP-90CD DB	DELTA/ADP-90CD DB

Item	Mode 7	Mode 8
Motherboard	ASUS U47VC MAIN BOARD	ASUS U47VC MAIN BOARD
CPU	INT I3-3110M 2.4G/3M QC4V BGA	INT I3-3110M 2.4G/3M QC4V BGA
Memory	ELPIDA/EBJ40UG8BBU0-GN-F	ELPIDA/EBJ40UG8BBU0-GN-F
HDD	SEAGATE/ST9750423AS	WD/WD10JPVT-80A1YT0
ODD	HLDS/GU60N	HLDS/GU60N
WIFI Only	N/A	N/A
WIFI+BT Combo	INTEL/2230BNHMW	INTEL/2230BNHMW
LCD	IVO/P140NWR1 R0	IVO/P140NWR1 R1
Camera	Azurewave/AM-VS053	CHICONY/CKFB1D321003870LH
Touch Pad	ELAN/SA461I-1000	ELAN/SA461I-1000
KeyBoard	0KN0-MF1US13	0KN0-MF2UK13
HDMI to VGA Connector	Yes	No
Battery	SIMPLO TECHNOLOGY CO LTD (ASUS)/ A32-U47,11.25V	SIMPLO TECHNOLOGY CO LTD (ASUS)/ A32-U47,11.25V
Adapter	DELTA/ADP-90CD DB	DELTA/ADP-90CD DB

Item	Mode 9	Mode 10
Motherboard	ASUS U47VC MAIN BOARD	ASUS U47VC MAIN BOARD
CPU	INT I3-3110M 2.4G/3M QC4V BGA	INT I3-3110M 2.4G/3M QC4V BGA
Memory	ELPIDA/EBJ40UG8BBU0-GN-F	ASINT/SSZ302G08-GGNED
HDD	SEAGATE/ST9500423AS	WD/5000BPKT-80PK4T0
ODD	HLDS/GU60N	HLDS/GU60N
WIFI Only	N/A	INTEL/105BN.HMWG 917353
WIFI+BT Combo	INTEL/2230BNHMW	N/A
LCD	IVO/P140NWR1 R0	IVO/P140NWR1 R1
Camera	Azurewave/AM-VS053	CHICONY/CKFB1D321003870LH
Touch Pad	ELAN/SA461I-1000	ELAN/SA461I-1000
KeyBoard	0KN0-MF1US13	0KN0-MF2UK13
HDMI to VGA Connector	Yes	No
Battery	SIMPLO TECHNOLOGY CO LTD (ASUS)/ A32-U47,11.25V	SIMPLO TECHNOLOGY CO LTD (ASUS)/ A32-U47,10.8V
Adapter	DELTA/ADP-90CD DB	DELTA/ADP-90CD DB

Item	Mode 11	Mode 12
Motherboard	ASUS U47VC MAIN BOARD	ASUS U47VC MAIN BOARD
CPU	INT I3-3110M 2.4G/3M QC4V BGA	INT I3-3110M 2.4G/3M QC4V BGA
Memory	ASINT/SSZ302G08-GGNED	ASINT/SSZ302G08-GGNED
HDD	SEAGATE/ST9750420AS	WD/7500BPKT-80PK4T0
ODD	HLDS/GU60N	HLDS/GU60N
WIFI Only	INTEL/105BNHMW	INTEL/105BNHMW
WIFI+BT Combo	N/A	N/A
LCD	IVO/P140NWR1 R0	IVO/P140NWR1 R1
Camera	Azurewave/AM-VS053	CHICONY/CKFB1D321003870LH
Touch Pad	ELAN/SA461I-1000	ELAN/SA461I-1000
KeyBoard	0KN0-MF1US13	0KN0-MF2UK13
HDMI to VGA Connector	Yes	No
Battery	SIMPLO TECHNOLOGY CO LTD (ASUS)/ A32-U47,10.8V	SIMPLO TECHNOLOGY CO LTD (ASUS)/ A32-U47,10.8V
Adapter	DELTA/ADP-90CD DB	DELTA/ADP-90CD DB

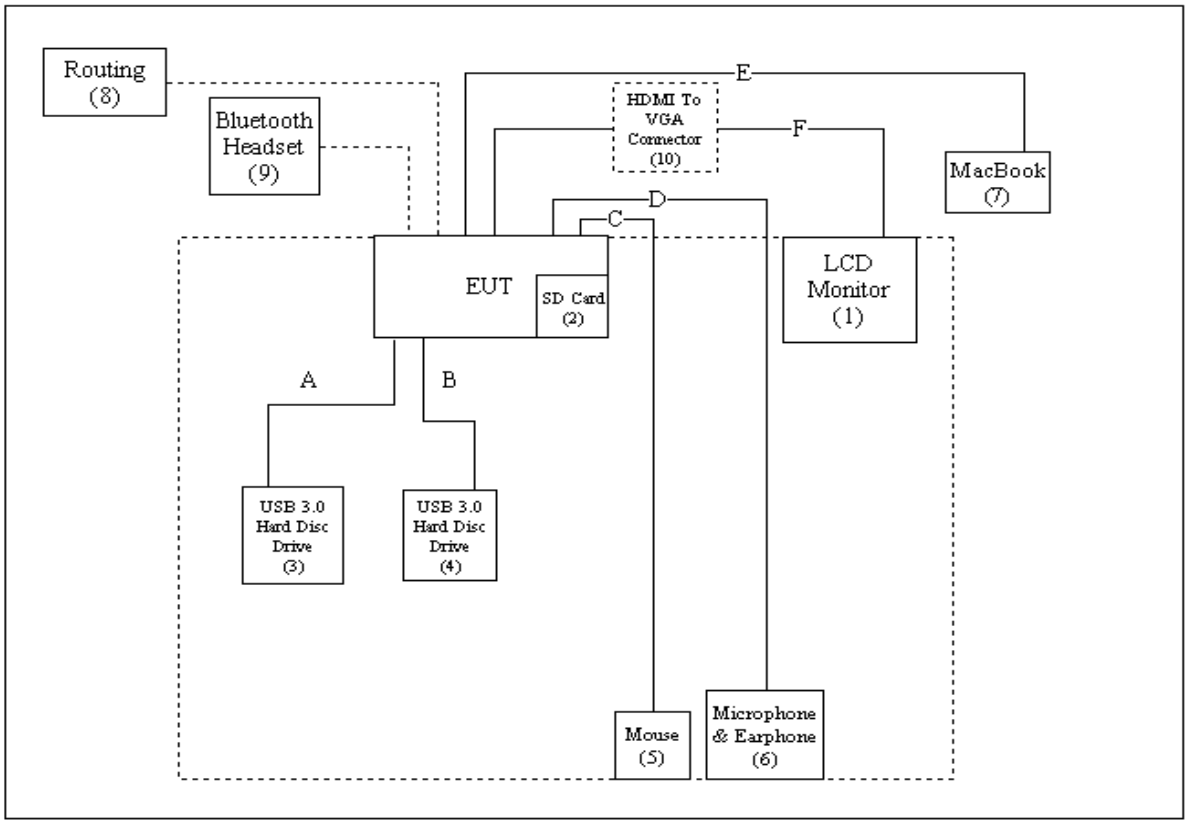
1.3. Tested System Details

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	LCD Monitor	DELL	U2410f	CN-OJ257M-72872-99E-1KJL	Non-Shielded, 1.8m
2	SD Card	SanDisk	2GB	OPWG 5000	Power by EUT
3	USB 3.0 Hard Disc Drive	Datage	Pleades 2500Ⅱ	15476991123653	Power by EUT
4	USB 3.0 Hard Disc Drive	Datage	Pleades 2500Ⅱ	15476991123646	Power by EUT
5	Mouse	ASUS	Foxlink 15890-1035-00A0	N/A	Power by EUT
6	Microphone & Earphone	SALAR	V81	N/A	Power by EUT
7	MacBook	Apple	MB061CH	W8732B4TZ5V	Power by Adapter
8	Routing	D-Link	DIR-605	PK11496006143	Non-Shielded, 1.8m
9	Bluetooth Headset	SUCD	STB-0068	N/A	Power by Battery
10	HDMI To VGA Connector	N/A	KS50008	N/A	Power by EUT

1.4. Configuration of Tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	USB 3.0 Cable	Shielded, 0.5m
B	USB 3.0 Cable	Shielded, 0.5m
C	USB 2.0 Cable	Shielded, 1.5m
D	Microphone & Earphone Cable	Non-Shielded, 1.8m
E	LAN Cable	Non-Shielded, >10m
F	HDMI Cable or VGA Cable	Shielded, 1.5m or Shielded,1.5m, with two ferrite core bonded

1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of all equipment.
3	Open the Camera and play music using Media Player program.
4	Play DVD disk with Media player.
5	Execute the HDD running program using “WINTHRAX.exe” software.
6	EUT will send and receive data through LAN using “Ping” function.
7	EUT communicates with another Notebook PC by WLAN; communicates with Bluetooth Earphone by Bluetooth.
8	Run Burn In Test program using Burn In Test” (Ver.6.0) software and send “H” pattern to the monitor.

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: 2010 Class B, ANSI C63.4: 2009	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart B: 2010 Class B, ANSI C63.4: 2009	Yes	No

2.2. List of Test Equipment

Conducted Emission / SR8

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESCS 30	838251/001	2011/06/02
LISN	R&S	ESH3-Z5	836679/020	2011/04/07
LISN	R&S	ENV216	100097	2011/04/07
Pulse Limiter	R&S	ESH3-Z2	357.8810.52	2011/09/23

Radiated Emission / CB7

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	Agilent	E4440A	MY46185846	2011/12/12
Bilog Antenna	Schaffner Chase	CBL6112B	2918	2011/07/28
EMI Test Receiver	R&S	ESCS 30	100121	2011/12/06
Pre-Amplifier	QTK	N/A	N/A	2011/07/07
CXA Signal Analyzer	Agilent	N9000A	MY50510072	2011/02/10
Horn Antenna	Schwarzbeck	9120D	576	2011/11/14
Pre-Amplifier	QuieTek	AP-180C	CHM/071920	2011/07/12

2.3. Measurement Uncertainty

Conducted Emissions

The measurement uncertainty is evaluated as ± 2.26 dB.

Radiated Emission

The measurement uncertainty is evaluated as ± 3.19 dB.

2.4. Test Environment

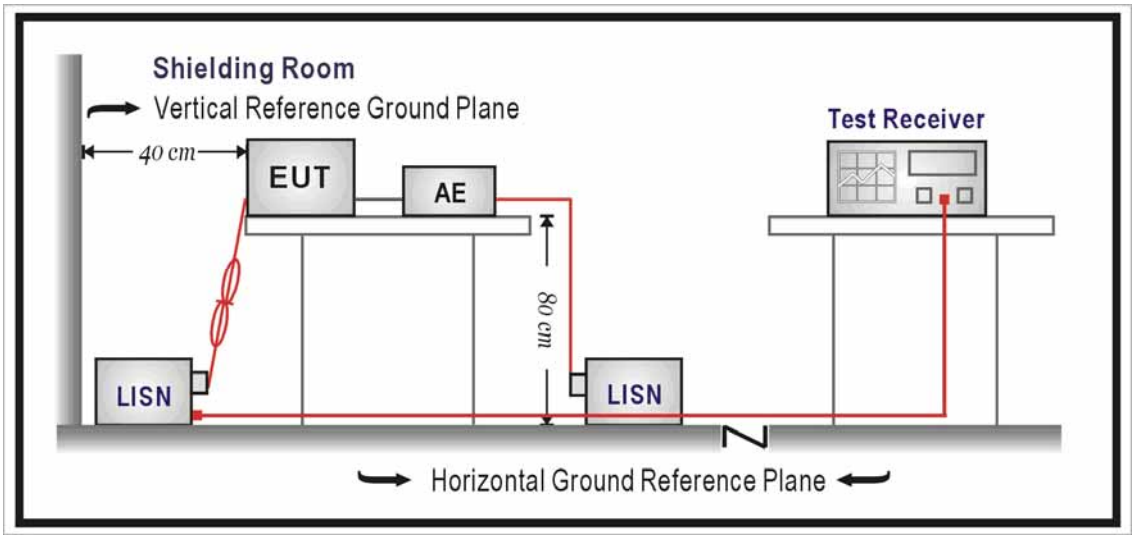
Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	15-35	23.1
	Humidity (%RH)	25-75	51
	Barometric pressure (mbar)	860-1060	950-1000
Radiated Emission	Temperature (°C)	15-35	16
	Humidity (%RH)	25-75	56
	Barometric pressure (mbar)	860-1060	950-1000

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

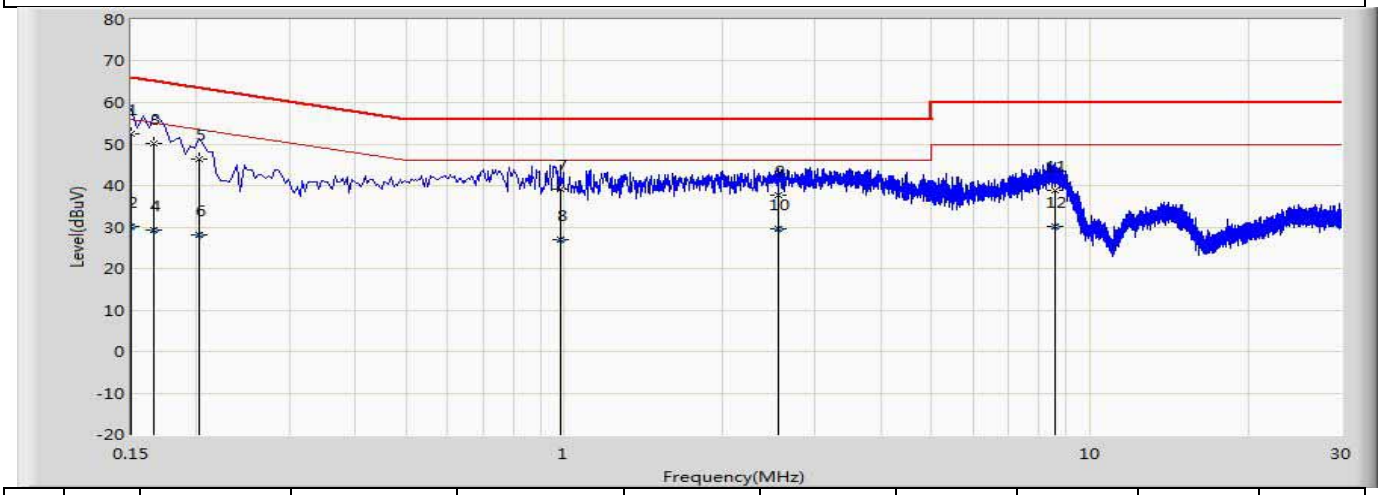
Remarks: In the above table, the tighter limit applies at the band edges.

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: SR8	Time: 2012/03/13 - 08:57
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-L1	Polarity: Line
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 2: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

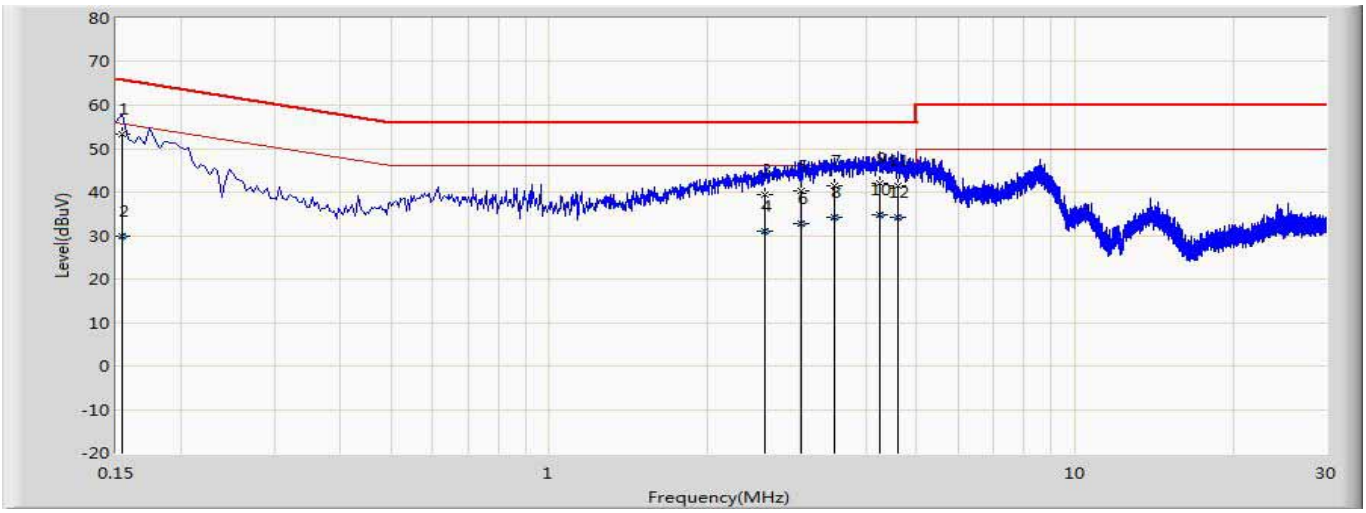


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1	*	0.150	52.404	42.668	-13.596	66.000	9.676	0.060	0.000	QP
2		0.150	30.194	20.458	-25.806	56.000	9.676	0.060	0.000	AV
3		0.166	50.075	40.350	-15.083	65.158	9.665	0.060	0.000	QP
4		0.166	29.307	19.582	-25.851	55.158	9.665	0.060	0.000	AV
5		0.202	46.343	36.633	-17.185	63.528	9.650	0.060	0.000	QP
6		0.202	28.193	18.483	-25.335	53.528	9.650	0.060	0.000	AV
7		0.982	39.202	29.492	-16.798	56.000	9.630	0.080	0.000	QP
8		0.982	26.813	17.103	-19.187	46.000	9.630	0.080	0.000	AV
9		2.558	37.657	27.897	-18.343	56.000	9.650	0.110	0.000	QP
10		2.558	29.554	19.794	-16.446	46.000	9.650	0.110	0.000	AV
11		8.606	38.783	28.823	-21.217	60.000	9.720	0.240	0.000	QP
12		8.606	30.030	20.070	-19.970	50.000	9.720	0.240	0.000	AV

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 + Factor(Probe+Cable-Amp).

Site: SR8	Time: 2012/03/13 - 08:58
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-N	Polarity: Neutral
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 2: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

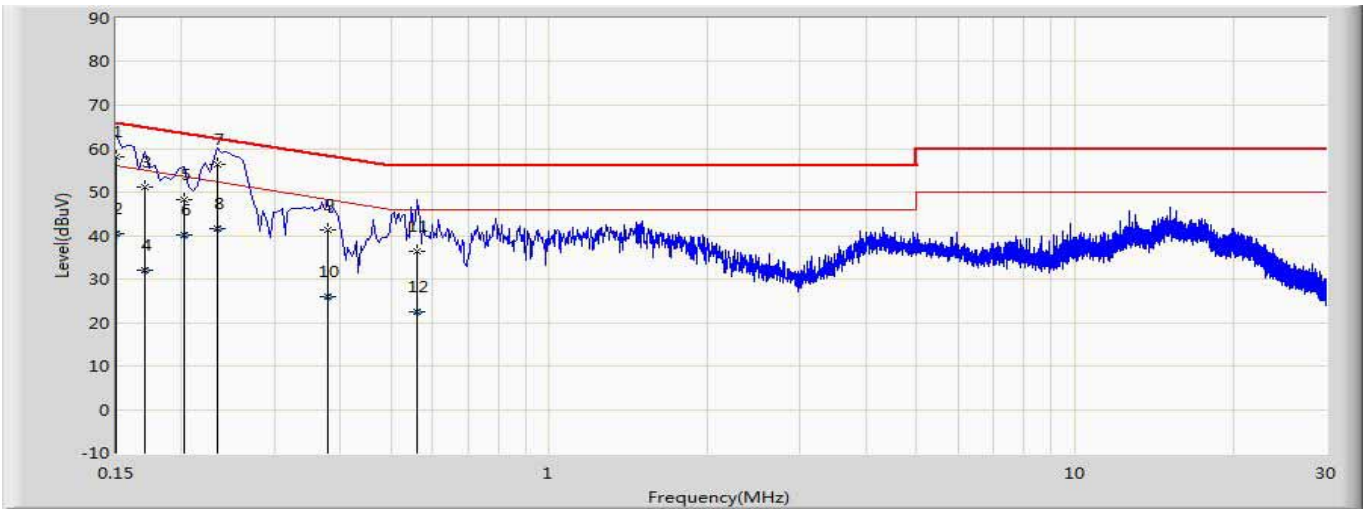


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.154	53.445	43.712	-12.336	65.781	9.673	0.060	0.000	QP
2		0.154	29.949	20.216	-25.832	55.781	9.673	0.060	0.000	AV
3		2.574	39.377	29.617	-16.623	56.000	9.650	0.110	0.000	QP
4		2.574	30.911	21.151	-15.089	46.000	9.650	0.110	0.000	AV
5		3.022	40.300	30.530	-15.700	56.000	9.650	0.120	0.000	QP
6		3.022	32.619	22.849	-13.381	46.000	9.650	0.120	0.000	AV
7		3.490	41.444	31.663	-14.556	56.000	9.651	0.130	0.000	QP
8		3.490	34.153	24.372	-11.847	46.000	9.651	0.130	0.000	AV
9		4.258	42.094	32.288	-13.906	56.000	9.660	0.146	0.000	QP
10	*	4.258	34.854	25.048	-11.146	46.000	9.660	0.146	0.000	AV
11		4.594	41.349	31.529	-14.651	56.000	9.670	0.150	0.000	QP
12		4.594	34.101	24.281	-11.899	46.000	9.670	0.150	0.000	AV

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 + Factor(Probe+Cable-Amp).

Site:SR8	Time: 2012/03/13 - 08:58
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-L1	Polarity: Line
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 4: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

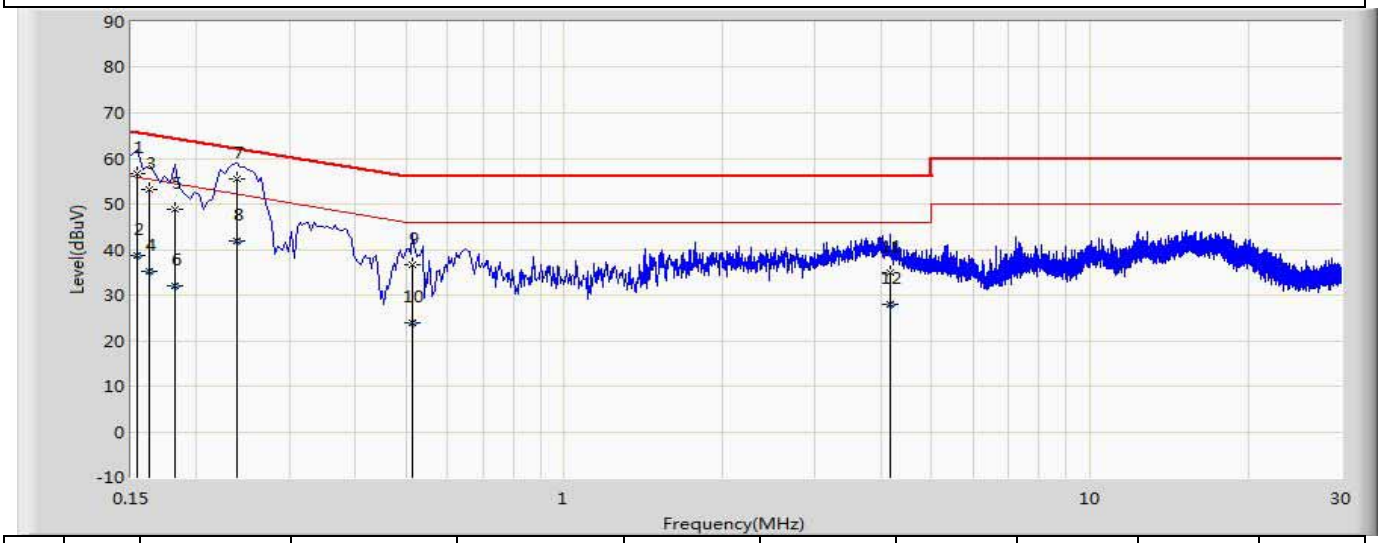


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.150	57.973	48.237	-8.027	66.000	9.676	0.060	0.000	QP
2		0.150	40.424	30.688	-15.576	56.000	9.676	0.060	0.000	AV
3		0.170	51.144	41.421	-13.816	64.960	9.663	0.060	0.000	QP
4		0.170	32.128	22.405	-22.832	54.960	9.663	0.060	0.000	AV
5		0.202	48.233	38.523	-15.295	63.528	9.650	0.060	0.000	QP
6		0.202	40.284	30.574	-13.244	53.528	9.650	0.060	0.000	AV
7	*	0.234	56.400	46.690	-5.907	62.307	9.650	0.060	0.000	QP
8		0.234	41.500	31.790	-10.807	52.307	9.650	0.060	0.000	AV
9		0.378	41.221	31.521	-17.102	58.323	9.640	0.060	0.000	QP
10		0.378	26.042	16.342	-22.281	48.323	9.640	0.060	0.000	AV
11		0.562	36.513	26.813	-19.487	56.000	9.630	0.070	0.000	QP
12		0.562	22.334	12.634	-23.666	46.000	9.630	0.070	0.000	AV

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 + Factor(Probe+Cable-Amp).

Site: SR8	Time: 2012/03/13 - 08:58
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-N	Polarity: Neutral
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 4: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

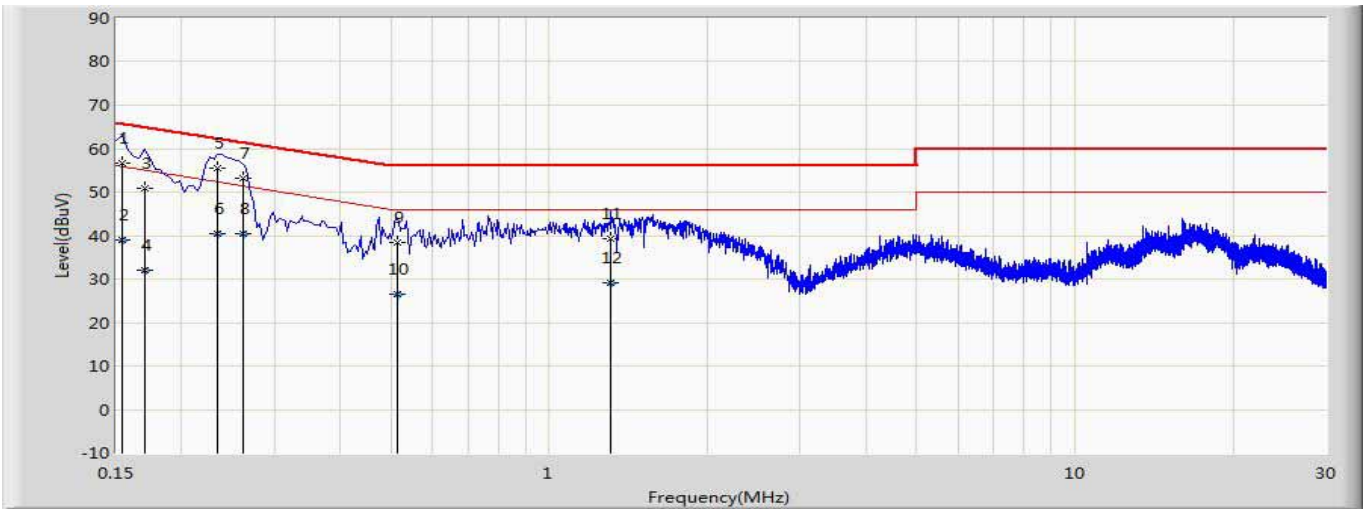


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.154	56.554	46.821	-9.227	65.781	9.673	0.060	0.000	QP
2		0.154	38.768	29.035	-17.013	55.781	9.673	0.060	0.000	AV
3		0.162	53.144	43.415	-12.217	65.361	9.669	0.060	0.000	QP
4		0.162	35.297	25.568	-20.064	55.361	9.669	0.060	0.000	AV
5		0.182	48.877	39.155	-15.517	64.394	9.662	0.060	0.000	QP
6		0.182	32.014	22.292	-22.380	54.394	9.662	0.060	0.000	AV
7	*	0.238	55.406	45.686	-6.760	62.166	9.660	0.060	0.000	QP
8		0.238	41.815	32.095	-10.351	52.166	9.660	0.060	0.000	AV
9		0.514	36.702	27.002	-19.298	56.000	9.630	0.070	0.000	QP
10		0.514	23.960	14.260	-22.040	46.000	9.630	0.070	0.000	AV
11		4.170	35.020	25.220	-20.980	56.000	9.660	0.140	0.000	QP
12		4.170	27.863	18.063	-18.137	46.000	9.660	0.140	0.000	AV

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 + Factor(Probe+Cable-Amp).

Site: SR8	Time: 2012/03/13 - 08:58
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-L1	Polarity: Line
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 6: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

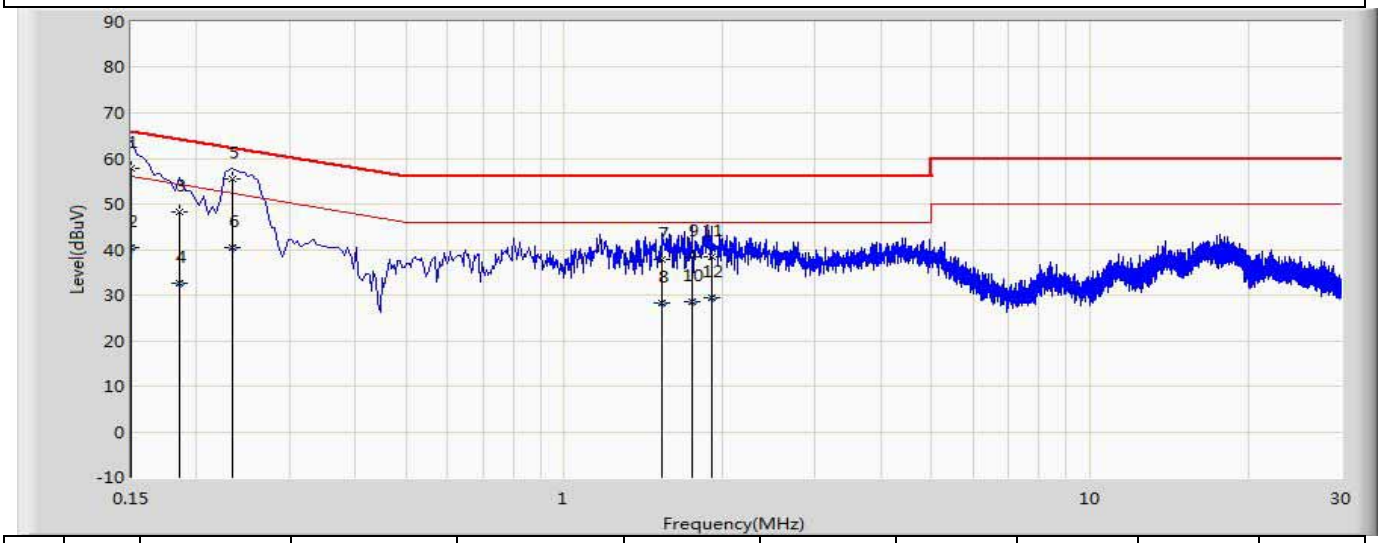


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.154	56.594	46.861	-9.187	65.781	9.673	0.060	0.000	QP
2		0.154	39.077	29.344	-16.704	55.781	9.673	0.060	0.000	AV
3		0.170	51.001	41.278	-13.959	64.960	9.663	0.060	0.000	QP
4		0.170	32.170	22.447	-22.790	54.960	9.663	0.060	0.000	AV
5	*	0.234	55.625	45.915	-6.682	62.307	9.650	0.060	0.000	QP
6		0.234	40.407	30.697	-11.900	52.307	9.650	0.060	0.000	AV
7		0.262	53.173	43.467	-8.195	61.368	9.646	0.060	0.000	QP
8		0.262	40.448	30.742	-10.920	51.368	9.646	0.060	0.000	AV
9		0.514	38.429	28.729	-17.571	56.000	9.630	0.070	0.000	QP
10		0.514	26.624	16.924	-19.376	46.000	9.630	0.070	0.000	AV
11		1.310	39.286	29.576	-16.714	56.000	9.630	0.080	0.000	QP
12		1.310	29.046	19.336	-16.954	46.000	9.630	0.080	0.000	AV

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 + Factor(Probe+Cable-Amp).

Site: SR8	Time: 2012/03/13 - 08:59
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-N	Polarity: Neutral
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 6: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

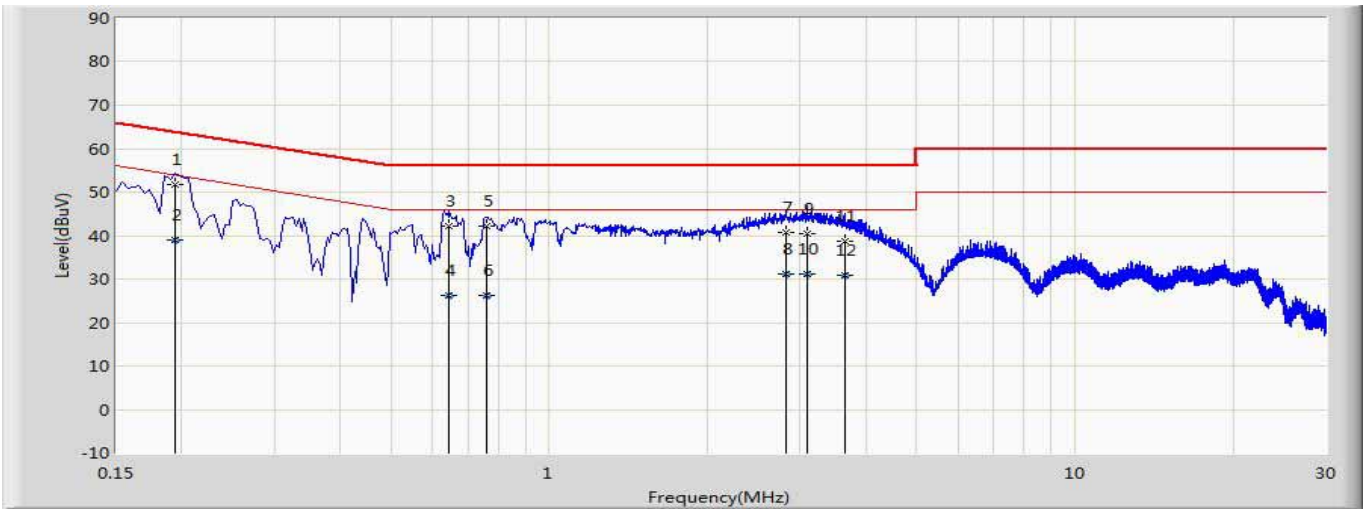


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.150	57.928	48.192	-8.072	66.000	9.676	0.060	0.000	QP
2		0.150	40.360	30.624	-15.640	56.000	9.676	0.060	0.000	AV
3		0.186	48.167	38.446	-16.046	64.213	9.661	0.060	0.000	QP
4		0.186	32.605	22.884	-21.608	54.213	9.661	0.060	0.000	AV
5	*	0.234	55.413	45.693	-6.894	62.307	9.660	0.060	0.000	QP
6		0.234	40.362	30.642	-11.945	52.307	9.660	0.060	0.000	AV
7		1.538	37.855	28.125	-18.145	56.000	9.640	0.090	0.000	QP
8		1.538	28.305	18.575	-17.695	46.000	9.640	0.090	0.000	AV
9		1.746	38.520	28.790	-17.480	56.000	9.640	0.090	0.000	QP
10		1.746	28.579	18.849	-17.421	46.000	9.640	0.090	0.000	AV
11		1.910	38.475	28.735	-17.525	56.000	9.640	0.100	0.000	QP
12		1.910	29.460	19.720	-16.540	46.000	9.640	0.100	0.000	AV

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 + Factor(Probe+Cable-Amp).

Site: SR8	Time: 2012/03/13 - 08:59
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-L1	Polarity: Line
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 7: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)	

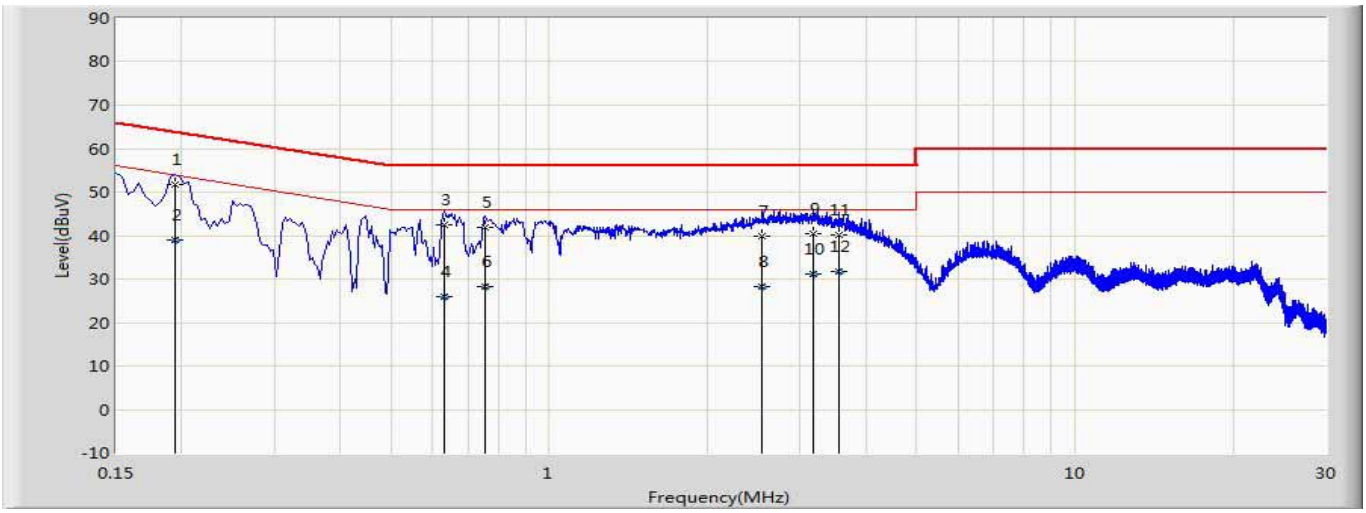


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1	*	0.194	51.792	42.082	-12.072	63.864	9.650	0.060	0.000	QP
2		0.194	39.088	29.378	-14.776	53.864	9.650	0.060	0.000	AV
3		0.646	42.261	32.571	-13.739	56.000	9.620	0.070	0.000	QP
4		0.646	26.090	16.400	-19.910	46.000	9.620	0.070	0.000	AV
5		0.762	42.192	32.502	-13.808	56.000	9.620	0.070	0.000	QP
6		0.762	26.340	16.650	-19.660	46.000	9.620	0.070	0.000	AV
7		2.822	40.739	30.969	-15.261	56.000	9.650	0.120	0.000	QP
8		2.822	31.240	21.470	-14.760	46.000	9.650	0.120	0.000	AV
9		3.098	40.533	30.763	-15.467	56.000	9.650	0.120	0.000	QP
10		3.098	31.269	21.499	-14.731	46.000	9.650	0.120	0.000	AV
11		3.650	38.821	29.031	-17.179	56.000	9.660	0.130	0.000	QP
12		3.650	30.846	21.056	-15.154	46.000	9.660	0.130	0.000	AV

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 + Factor(Probe+Cable-Amp).

Site: SR8	Time: 2012/03/13 - 08:59
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-N	Polarity: Neutral
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 7: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)	

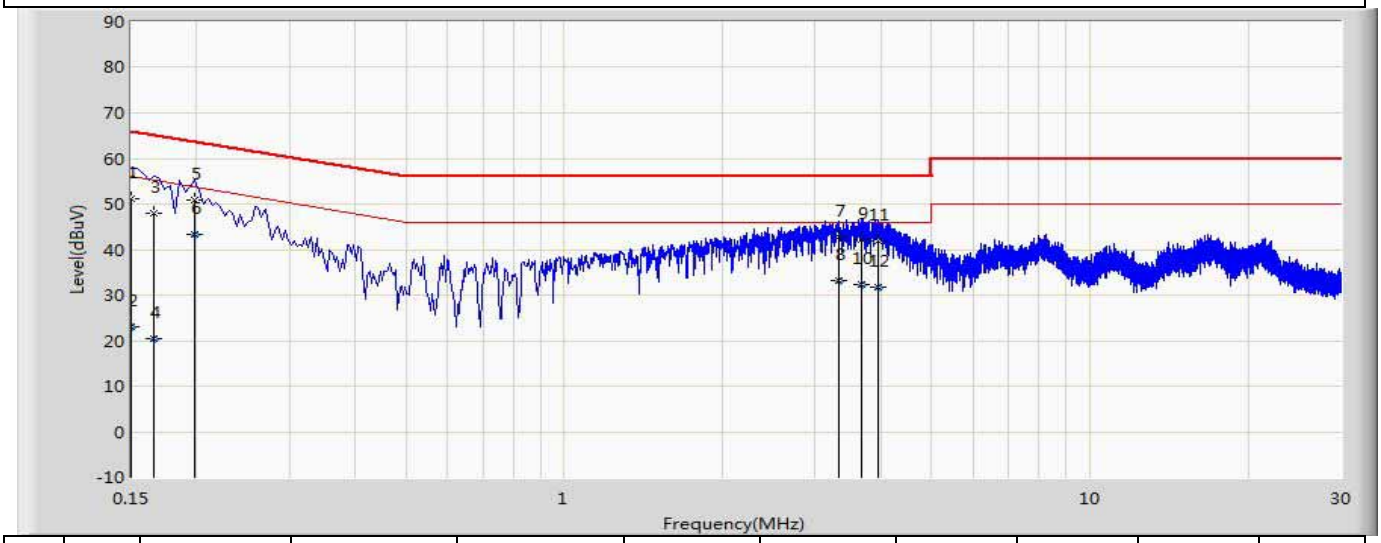


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1	*	0.194	51.617	41.897	-12.247	63.864	9.660	0.060	0.000	QP
2		0.194	38.917	29.197	-14.947	53.864	9.660	0.060	0.000	AV
3		0.630	42.331	32.621	-13.669	56.000	9.640	0.070	0.000	QP
4		0.630	25.837	16.127	-20.163	46.000	9.640	0.070	0.000	AV
5		0.754	41.880	32.170	-14.120	56.000	9.640	0.070	0.000	QP
6		0.754	28.295	18.585	-17.705	46.000	9.640	0.070	0.000	AV
7		2.542	39.840	30.080	-16.160	56.000	9.650	0.110	0.000	QP
8		2.542	28.399	18.639	-17.601	46.000	9.650	0.110	0.000	AV
9		3.182	40.548	30.778	-15.452	56.000	9.650	0.120	0.000	QP
10		3.182	31.110	21.340	-14.890	46.000	9.650	0.120	0.000	AV
11		3.562	40.282	30.492	-15.718	56.000	9.660	0.130	0.000	QP
12		3.562	31.618	21.828	-14.382	46.000	9.660	0.130	0.000	AV

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 + Factor(Probe+Cable-Amp).

Site: SR8	Time: 2012/03/13 - 09:00
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-L1	Polarity: Line
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 10: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

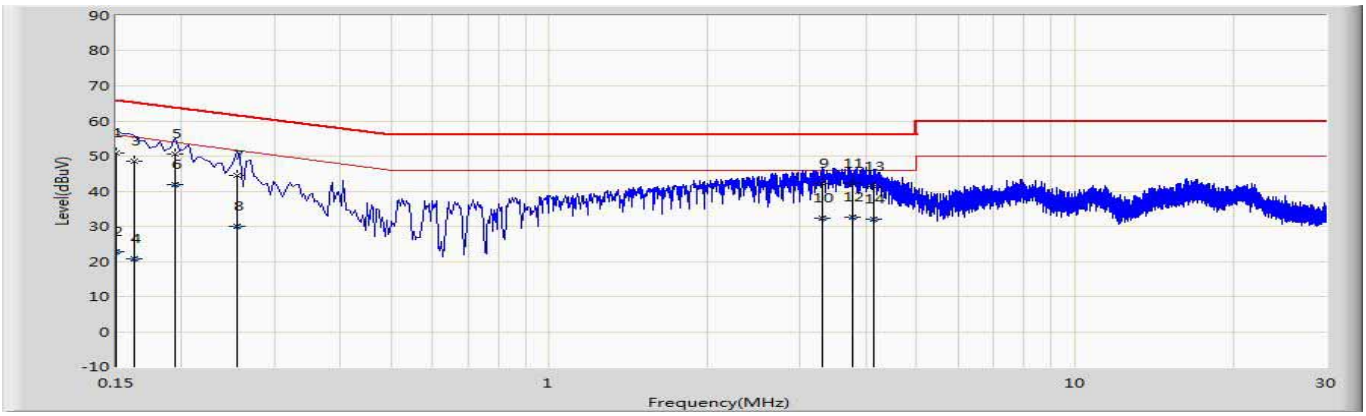


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.150	51.114	41.378	-14.886	66.000	9.676	0.060	0.000	QP
2		0.150	23.056	13.320	-32.944	56.000	9.676	0.060	0.000	AV
3		0.166	48.022	38.297	-17.136	65.158	9.665	0.060	0.000	QP
4		0.166	20.499	10.774	-34.659	55.158	9.665	0.060	0.000	AV
5		0.198	50.938	41.228	-12.756	63.694	9.650	0.060	0.000	QP
6	*	0.198	43.225	33.515	-10.469	53.694	9.650	0.060	0.000	AV
7		3.318	42.737	32.957	-13.263	56.000	9.650	0.130	0.000	QP
8		3.318	33.158	23.378	-12.842	46.000	9.650	0.130	0.000	AV
9		3.670	42.120	32.330	-13.880	56.000	9.660	0.130	0.000	QP
10		3.670	32.461	22.671	-13.539	46.000	9.660	0.130	0.000	AV
11		3.950	42.016	32.216	-13.984	56.000	9.660	0.140	0.000	QP
12		3.950	31.655	21.855	-14.345	46.000	9.660	0.140	0.000	AV

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 + Factor(Probe+Cable-Amp).

Site:SR8	Time: 2012/03/13 - 09:00
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-N	Polarity: Neutral
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 10: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

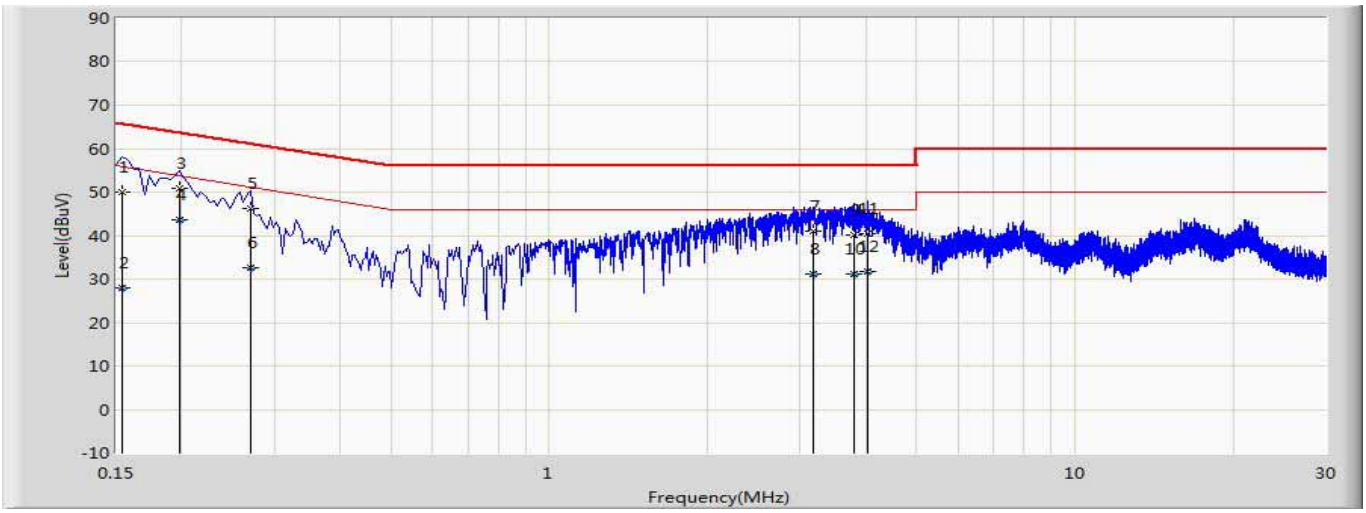


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.150	50.949	41.213	-15.051	66.000	9.676	0.060	0.000	QP
2		0.150	22.870	13.134	-33.130	56.000	9.676	0.060	0.000	AV
3		0.162	48.424	38.695	-16.937	65.361	9.669	0.060	0.000	QP
4		0.162	20.827	11.098	-34.534	55.361	9.669	0.060	0.000	AV
5		0.194	50.675	40.955	-13.189	63.864	9.660	0.060	0.000	QP
6	*	0.194	41.915	32.195	-11.949	53.864	9.660	0.060	0.000	AV
7		0.254	44.404	34.686	-17.221	61.625	9.658	0.060	0.000	QP
8		0.254	29.971	20.253	-21.654	51.625	9.658	0.060	0.000	AV
9		3.314	42.232	32.452	-13.768	56.000	9.650	0.130	0.000	QP
10		3.314	32.233	22.453	-13.767	46.000	9.650	0.130	0.000	AV
11		3.762	42.229	32.429	-13.771	56.000	9.660	0.140	0.000	QP
12		3.762	32.523	22.723	-13.477	46.000	9.660	0.140	0.000	AV
13		4.134	41.219	31.419	-14.781	56.000	9.660	0.140	0.000	QP
14		4.134	31.946	22.146	-14.054	46.000	9.660	0.140	0.000	AV

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 + Factor(Probe+Cable-Amp).

Site: SR8	Time: 2012/03/13 - 09:01
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-L1	Polarity: Line
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 11: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)	

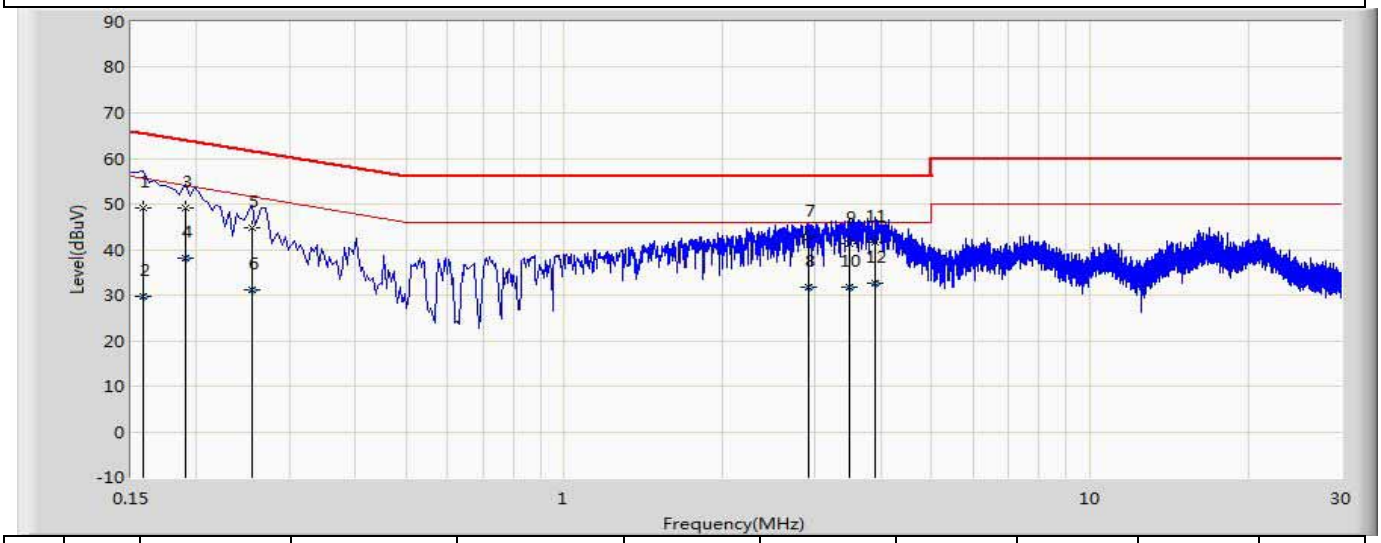


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.154	50.107	40.374	-15.674	65.781	9.673	0.060	0.000	QP
2		0.154	27.914	18.181	-27.867	55.781	9.673	0.060	0.000	AV
3		0.198	50.738	41.028	-12.956	63.694	9.650	0.060	0.000	QP
4	*	0.198	43.591	33.881	-10.103	53.694	9.650	0.060	0.000	AV
5		0.270	46.266	36.563	-14.852	61.118	9.643	0.060	0.000	QP
6		0.270	32.677	22.974	-18.441	51.118	9.643	0.060	0.000	AV
7		3.182	40.963	31.193	-15.037	56.000	9.650	0.120	0.000	QP
8		3.182	31.144	21.374	-14.856	46.000	9.650	0.120	0.000	AV
9		3.806	40.169	30.369	-15.831	56.000	9.660	0.140	0.000	QP
10		3.806	31.226	21.426	-14.774	46.000	9.660	0.140	0.000	AV
11		4.030	40.540	30.740	-15.460	56.000	9.660	0.140	0.000	QP
12		4.030	31.611	21.811	-14.389	46.000	9.660	0.140	0.000	AV

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 + Factor(Probe+Cable-Amp).

Site: SR8	Time: 2012/03/13 - 09:01
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-N	Polarity: Neutral
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 11: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.158	49.263	39.532	-16.305	65.568	9.671	0.060	0.000	QP
2		0.158	29.718	19.987	-25.850	55.568	9.671	0.060	0.000	AV
3		0.190	49.094	39.374	-14.943	64.037	9.660	0.060	0.000	QP
4		0.190	38.074	28.354	-15.963	54.037	9.660	0.060	0.000	AV
5		0.254	44.773	35.055	-16.852	61.625	9.658	0.060	0.000	QP
6		0.254	31.235	21.517	-20.390	51.625	9.658	0.060	0.000	AV
7	*	2.910	42.662	32.892	-13.338	56.000	9.650	0.120	0.000	QP
8		2.910	31.792	22.022	-14.208	46.000	9.650	0.120	0.000	AV
9		3.478	41.355	31.575	-14.645	56.000	9.650	0.130	0.000	QP
10		3.478	31.798	22.018	-14.202	46.000	9.650	0.130	0.000	AV
11		3.914	41.712	31.912	-14.288	56.000	9.660	0.140	0.000	QP
12		3.914	32.661	22.861	-13.339	46.000	9.660	0.140	0.000	AV

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 + Factor(Probe+Cable-Amp).

3.6. Test Photograph

Test Mode : Mode 2: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)

Description : Front View of Conducted Test

Test Mode : Mode 2: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)

Description : Back View of Conducted Test

Test Mode : Mode 4: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)

Description : Front View of Conducted Test

Test Mode : Mode 4: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)

Description : Back View of Conducted Test

Test Mode : Mode 6: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)

Description : Front View of Conducted Test

Test Mode : Mode 6: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)

Description : Back View of Conducted Test

Test Mode : Mode 7: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)

Description : Front View of Conducted Test

Test Mode : Mode 7: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)

Description : Back View of Conducted Test

Test Mode : Mode 10: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)
Description : Front View of Conducted Test

Test Mode : Mode 10: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)
Description : Back View of Conducted Test

Test Mode : Mode 11: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)

Description : Front View of Conducted Test

Test Mode : Mode 11: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)

Description : Back View of Conducted Test

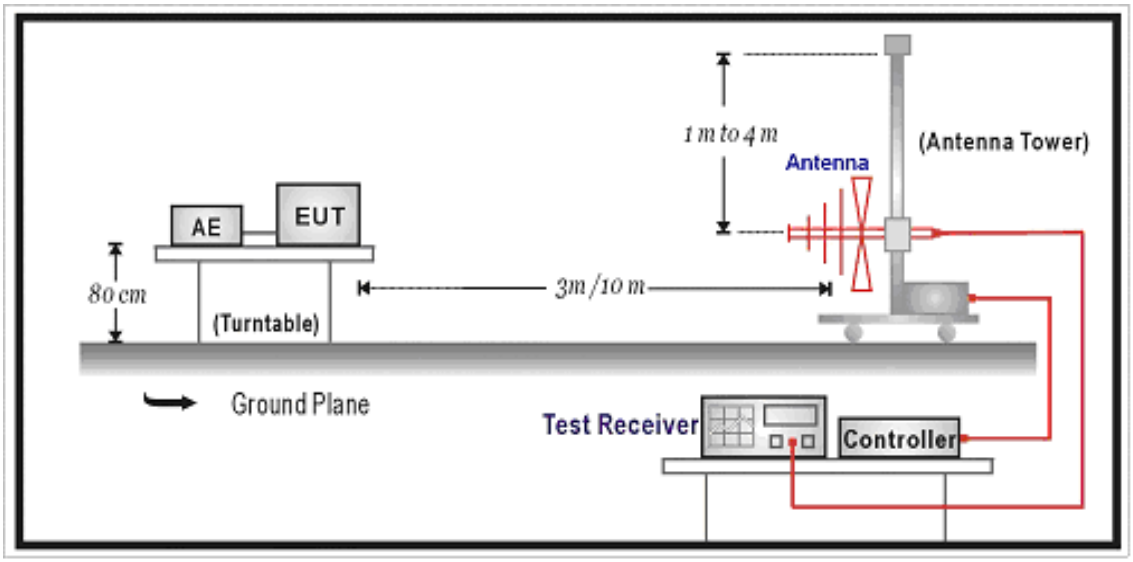
4. Radiated Emission

4.1. Test Specification

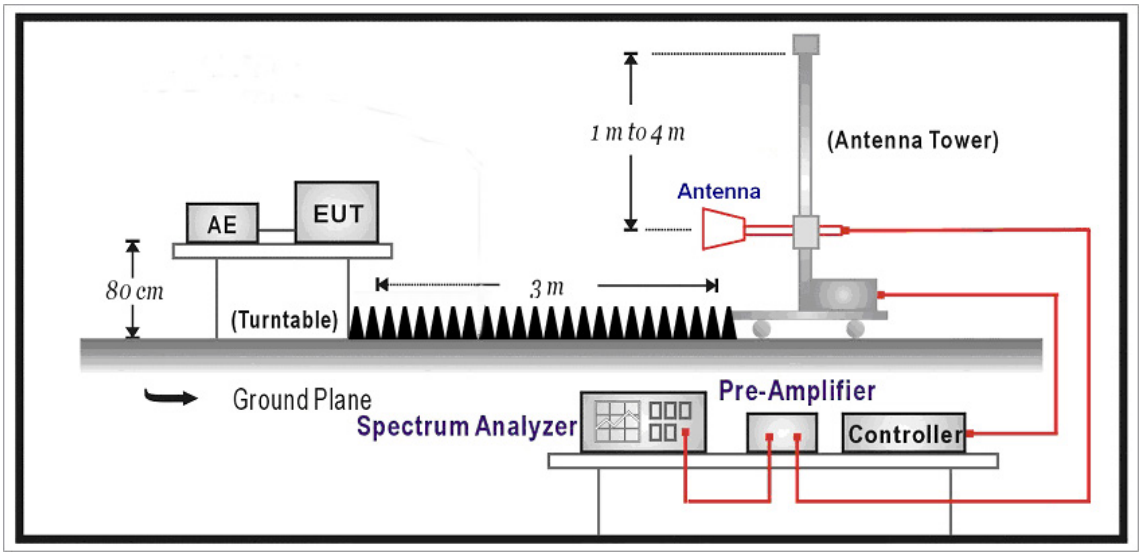
According to EMC Standard : FCC Part 15 Subpart B, ANSI C63.4

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 folowing 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.

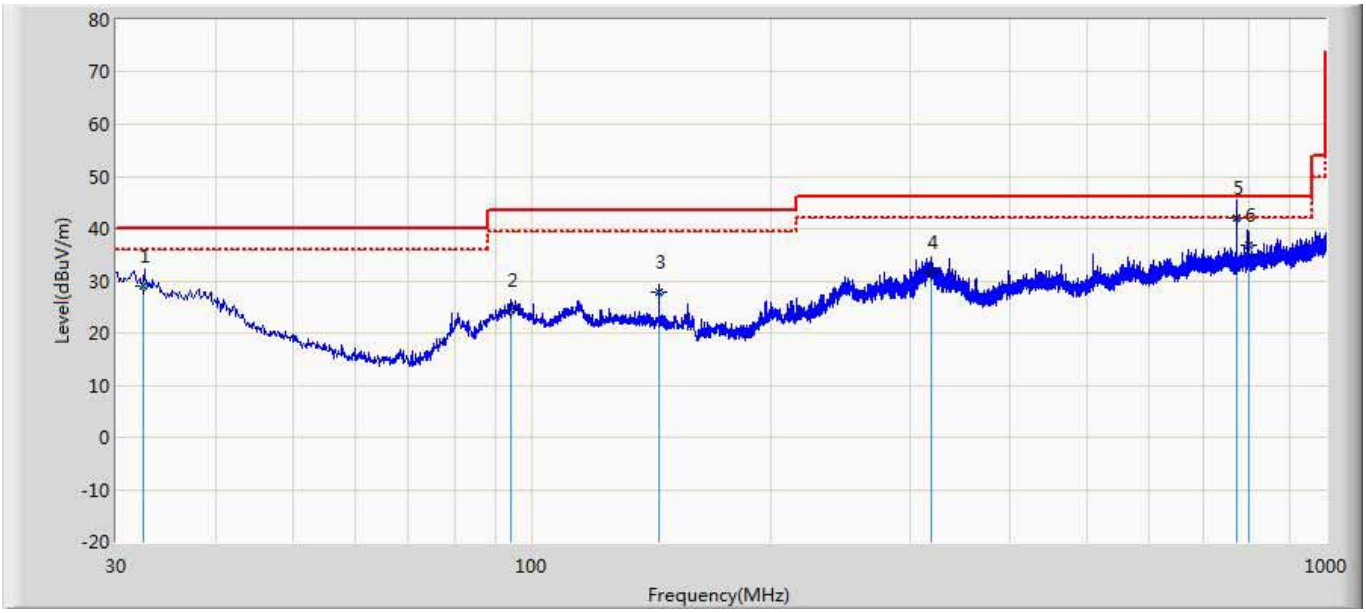
For class B, the measurement distance between the EUT and antenna is 3 meters.

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

The measurement is performed in the 667MHz processor.

4.5. Test Result

Site: CB7	Time: 2012/03/13 - 03:36
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 4
Probe: 9x6x6-2007-06-01	Polarity: Horizontal
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 2: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

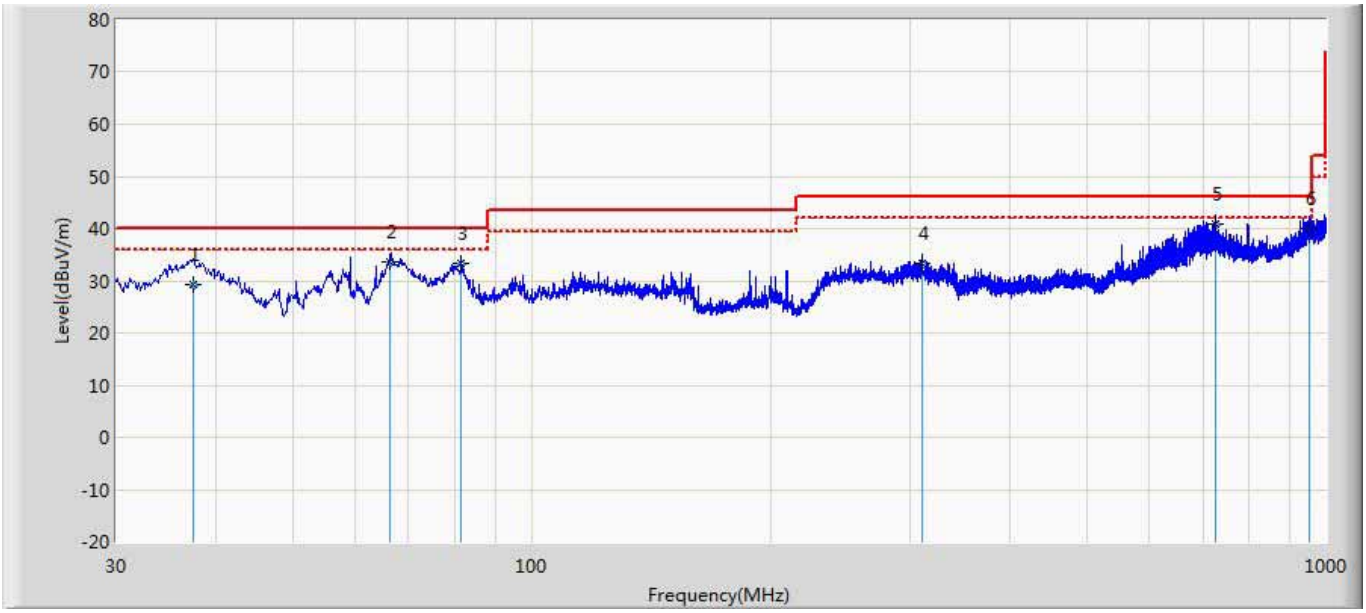


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		32.512	29.054	27.112	-10.946	40.000	24.442	0.626	23.126	100	68	QP
2		94.156	24.425	32.935	-19.075	43.500	13.590	1.050	23.150	100	56	QP
3		144.780	27.955	41.541	-15.545	43.500	8.130	1.303	23.020	200	28	QP
4		318.766	31.513	38.031	-14.487	46.000	14.502	1.930	22.950	200	258	QP
5	*	772.260	41.891	37.567	-4.109	46.000	23.752	3.070	22.498	200	345	QP
6		798.730	36.926	32.036	-9.074	46.000	24.105	3.110	22.325	200	187	QP

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 03:37
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 4
Probe: 9x6x6-2007-06-01	Polarity: Vertical
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 2: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

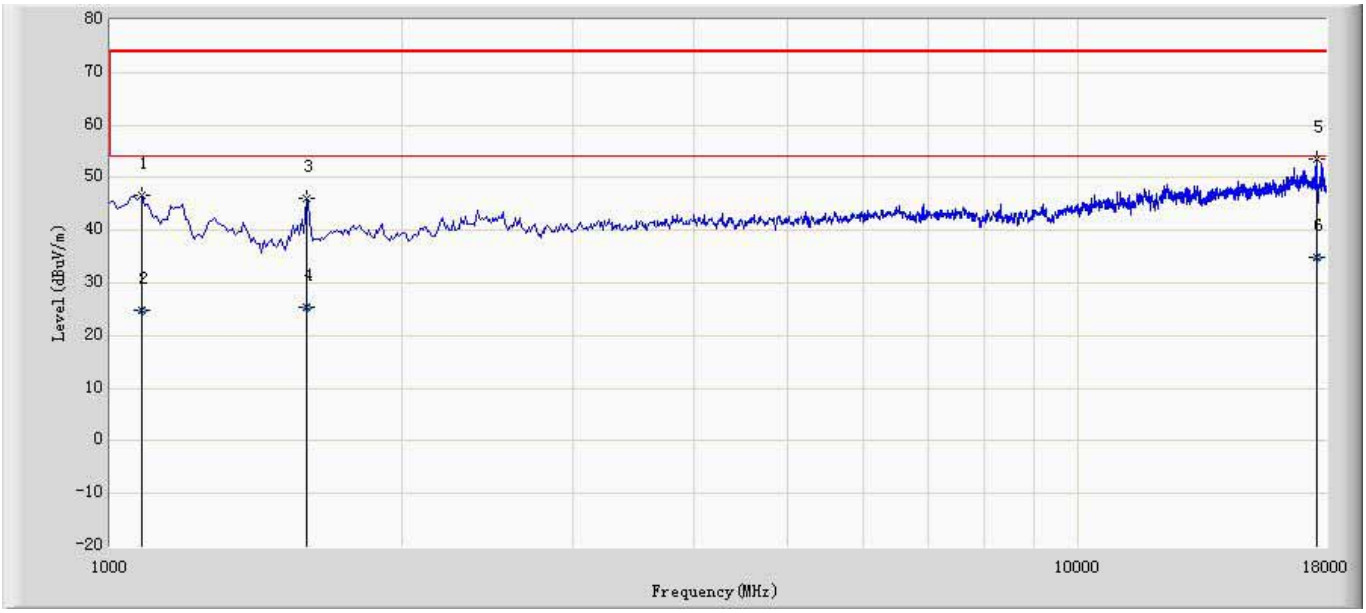


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		37.470	29.225	36.768	-10.775	40.000	15.004	0.667	23.214	100	29	QP
2		66.350	33.686	47.660	-6.314	40.000	8.212	0.875	23.060	120	360	QP
3		81.630	33.362	44.925	-6.638	40.000	10.575	0.972	23.110	100	183	QP
4		309.880	33.275	41.607	-12.725	46.000	12.718	1.900	22.950	100	47	QP
5	*	726.160	40.787	38.993	-5.213	46.000	21.397	2.987	22.590	100	50	QP
6		953.210	40.072	34.042	-5.928	46.000	24.920	3.410	22.300	100	306	QP

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 06:09
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: 9120D_1-18G_Horn	Polarity: Horizontal
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 2: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

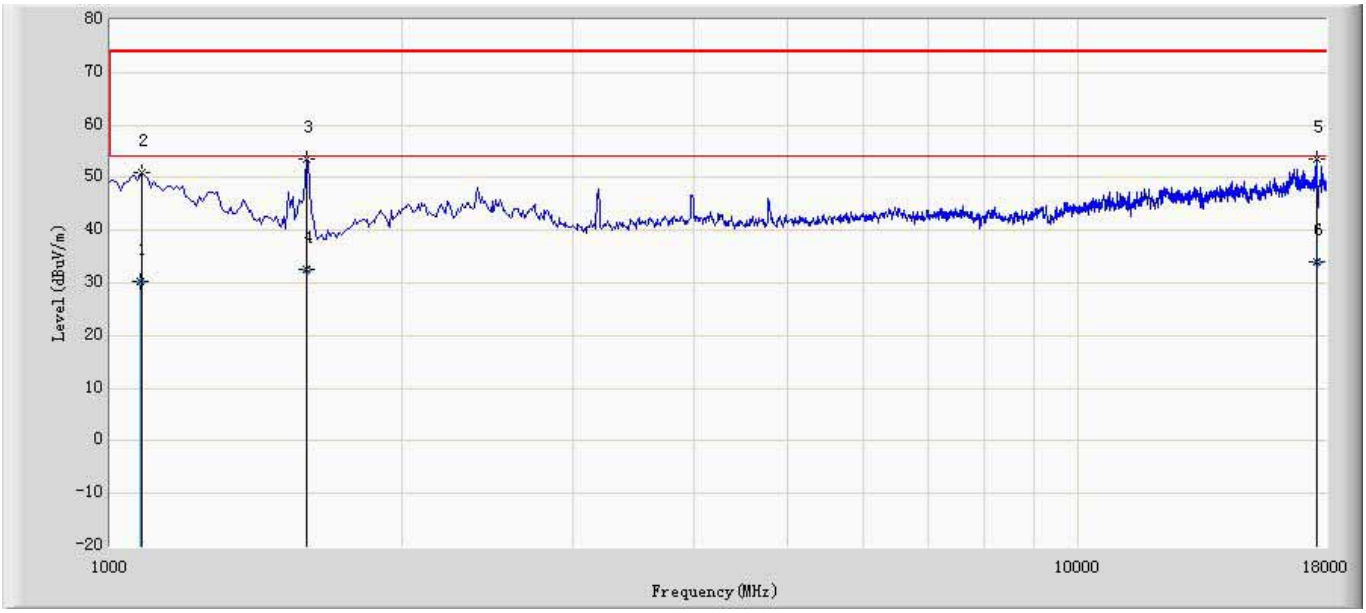


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		1076.500	46.574	52.888	-27.426	74.000	24.455	3.691	34.460	100	42	PK
2		1078.457	24.825	31.133	-29.175	54.000	24.458	3.694	34.460	100	42	AV
3		1595.000	46.075	50.576	-27.925	74.000	25.410	4.539	34.450	100	328	PK
4		1597.457	25.308	29.802	-28.692	54.000	25.413	4.543	34.450	100	328	AV
5		17592.000	53.436	28.315	-20.564	74.000	42.130	16.281	33.290	100	59	PK
6	*	17593.560	34.994	9.848	-19.006	54.000	42.147	16.288	33.289	100	59	AV

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 06:09
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: 9120D_1-18G_Horn	Polarity: Vertical
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 2: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

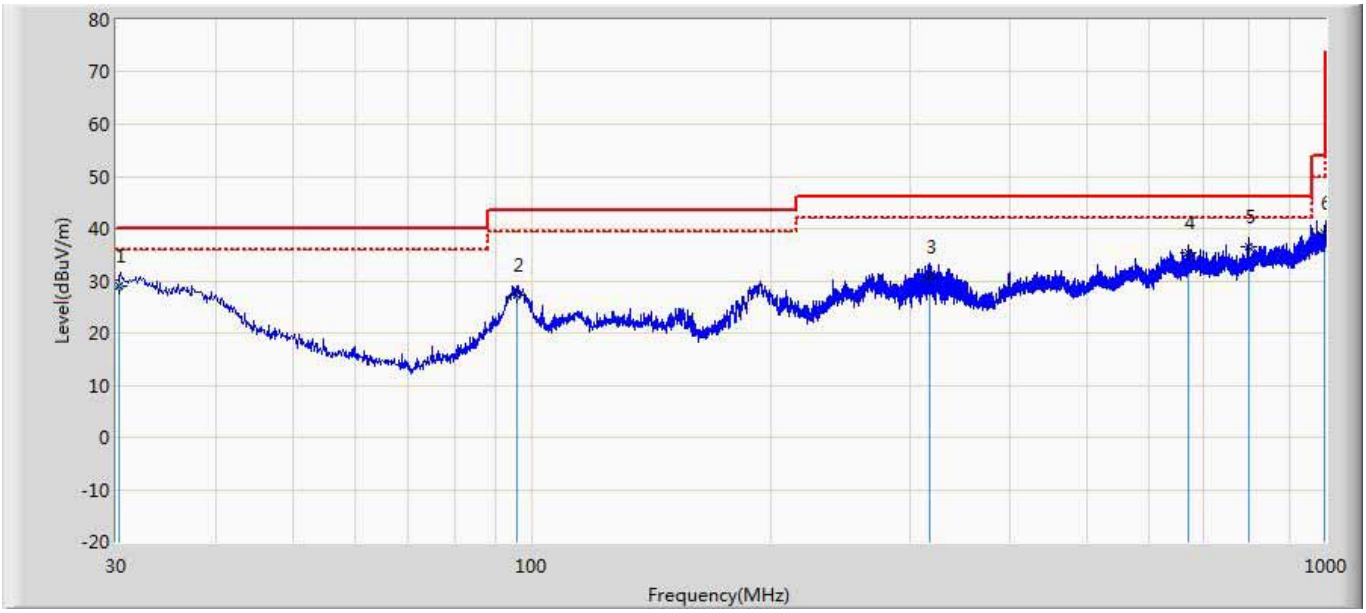


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		1075.396	30.284	36.602	-23.716	54.000	24.453	3.689	34.460	126	69	AV
2		1076.500	50.989	57.303	-23.011	74.000	24.455	3.691	34.460	126	69	PK
3		1595.000	53.541	58.042	-20.459	74.000	25.410	4.539	34.450	100	320	PK
4		1596.956	32.616	37.111	-21.384	54.000	25.412	4.543	34.450	100	320	AV
5		17592.000	53.702	28.581	-20.298	74.000	42.130	16.281	33.290	100	46	PK
6	*	17593.663	33.974	8.826	-20.026	54.000	42.149	16.288	33.289	100	46	AV

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 03:38
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 4
Probe: 9x6x6-2007-06-01	Polarity: Horizontal
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 4: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

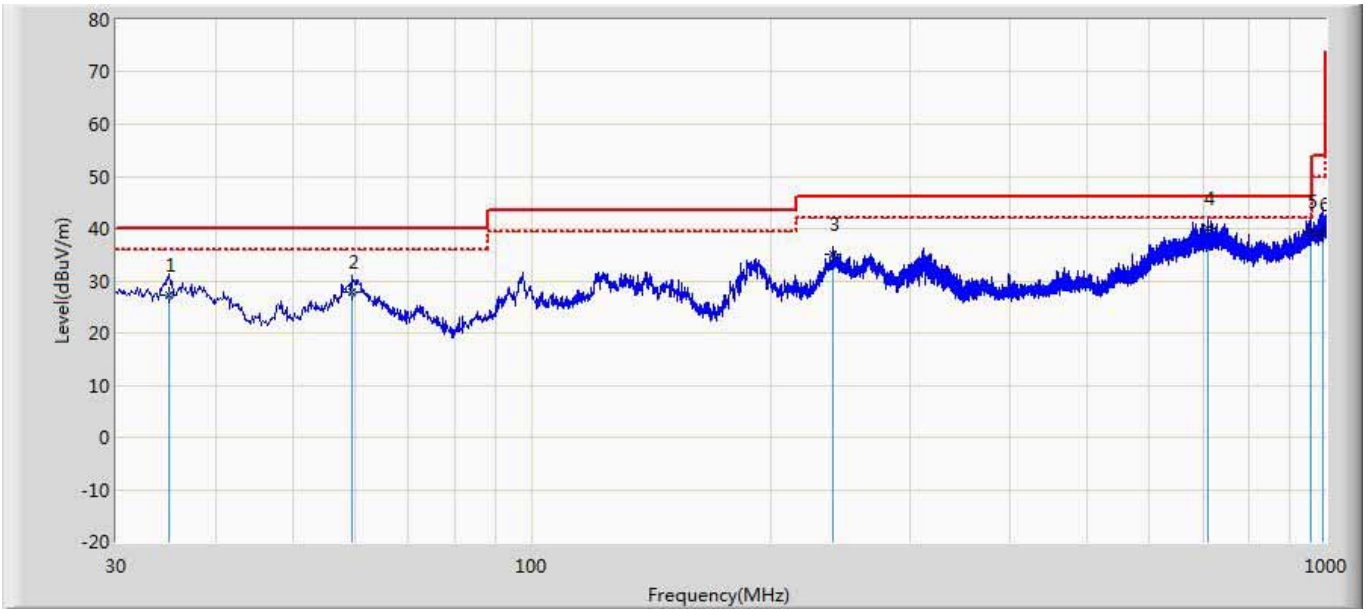


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		30.260	29.112	27.189	-10.888	40.000	24.405	0.603	23.085	100	52	QP
2		95.733	27.227	34.803	-16.273	43.500	14.524	1.058	23.158	200	57	QP
3		316.820	30.705	37.354	-15.295	46.000	14.381	1.920	22.950	100	183	QP
4		671.170	35.252	31.512	-10.748	46.000	23.250	2.860	22.370	200	91	QP
5	*	798.320	36.495	31.613	-9.505	46.000	24.101	3.110	22.329	100	206	QP
6		997.430	39.126	33.426	-14.874	54.000	24.480	3.490	22.270	200	273	QP

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 03:38
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 4
Probe: 9x6x6-2007-06-01	Polarity: Vertical
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 4: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

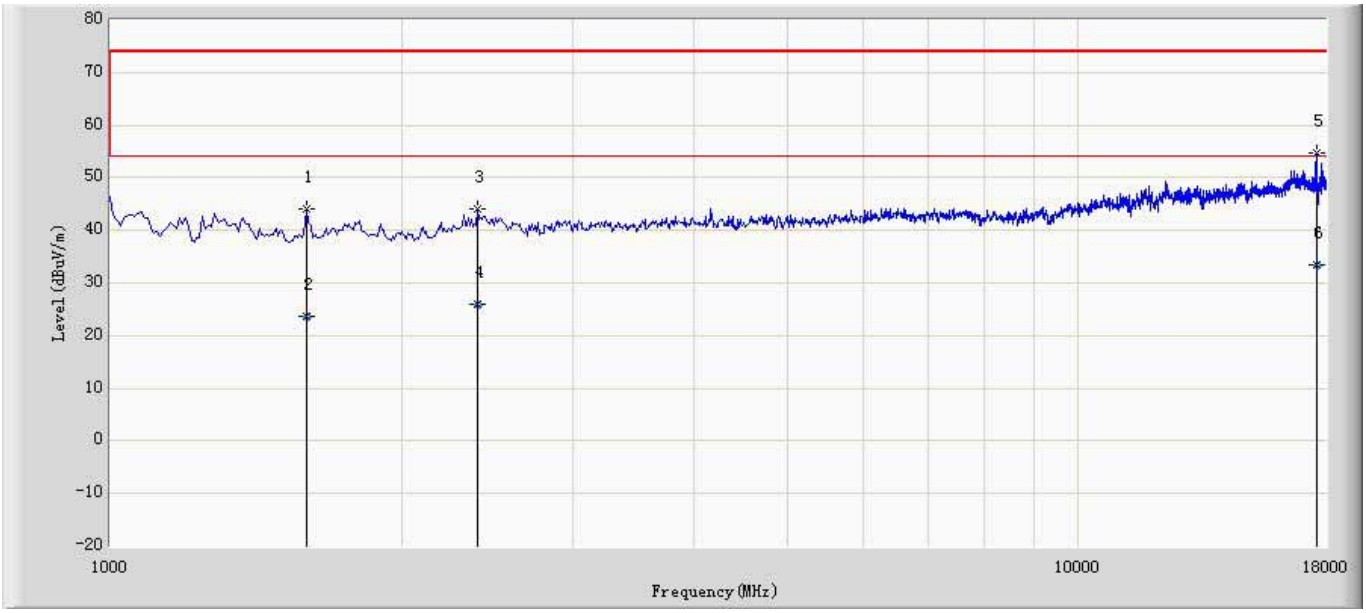


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		34.950	27.168	33.635	-12.832	40.000	16.063	0.641	23.171	100	146	QP
2		59.360	27.952	43.848	-12.048	40.000	6.304	0.833	23.033	100	50	QP
3		240.000	35.079	38.129	-10.921	46.000	18.580	1.670	23.300	200	43	QP
4	*	711.530	39.995	38.369	-6.005	46.000	21.226	2.960	22.560	100	63	QP
5		957.290	39.316	33.276	-6.684	46.000	24.930	3.410	22.300	100	81	QP
6		992.120	38.872	32.682	-15.128	54.000	24.980	3.480	22.270	100	360	QP

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 06:11
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: 9120D_1-18G_Horn	Polarity: Horizontal
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 4: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

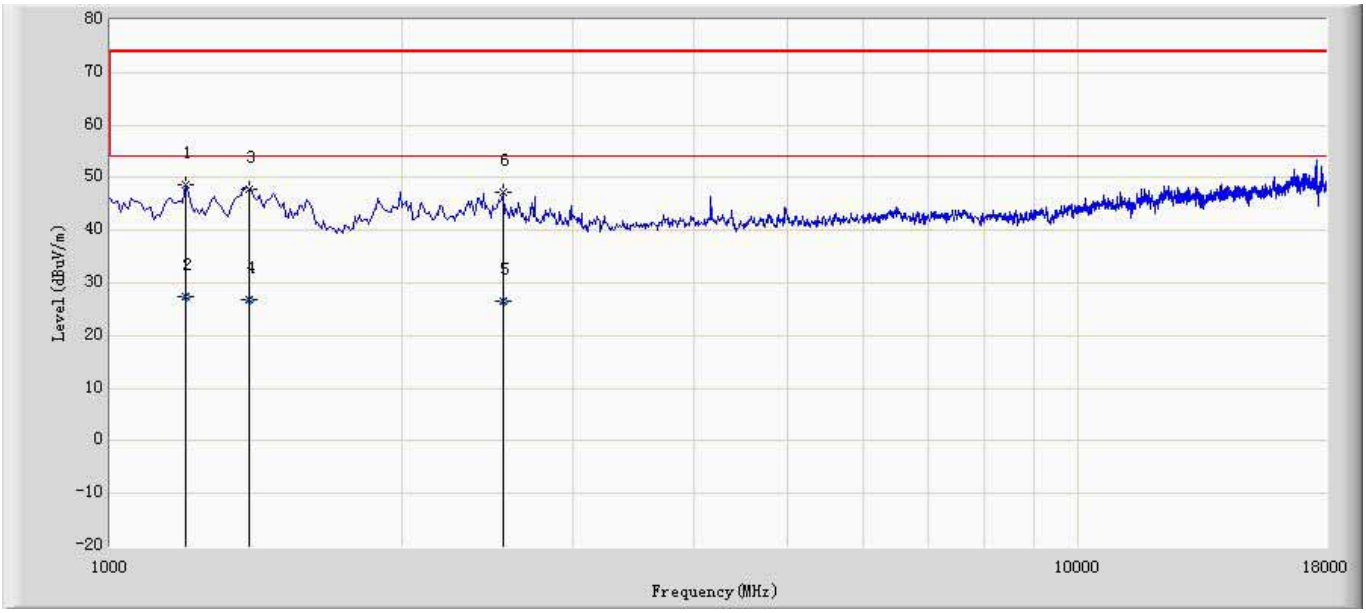


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		1595.000	44.070	48.571	-29.930	74.000	25.410	4.539	34.450	100	15	PK
2		1595.896	23.716	28.214	-30.284	54.000	25.411	4.541	34.450	100	15	AV
3		2394.000	44.177	46.200	-29.823	74.000	27.240	5.657	34.920	100	153	PK
4		2396.565	26.057	28.068	-27.943	54.000	27.249	5.660	34.920	100	153	AV
5	*	17592.000	54.806	29.685	-19.194	74.000	42.130	16.281	33.290	100	85	PK
6		17593.895	33.449	8.298	-20.551	54.000	42.151	16.289	33.289	100	85	AV

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 06:11
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: 9120D_1-18G_Horn	Polarity: Vertical
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 4: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

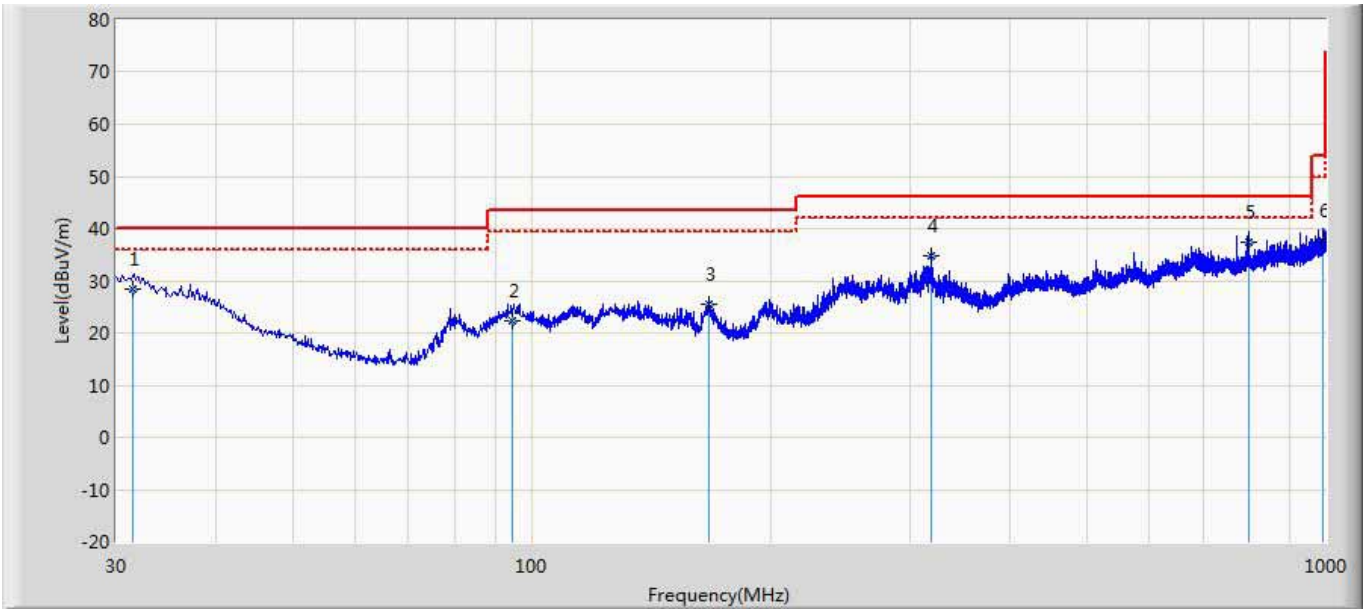


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1	*	1195.500	48.565	54.436	-25.435	74.000	24.690	3.889	34.450	100	157	PK
2		1196.441	27.277	33.145	-26.723	54.000	24.692	3.890	34.450	100	157	AV
3		1391.000	47.942	53.095	-26.058	74.000	25.080	4.217	34.450	100	286	PK
4		1392.533	26.928	32.075	-27.072	54.000	25.084	4.220	34.450	100	286	AV
5		2546.460	26.692	28.081	-27.308	54.000	27.679	5.862	34.930	100	86	AV
6		2547.000	47.318	48.705	-26.682	74.000	27.680	5.863	34.930	100	86	PK

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 03:37
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 4
Probe: 9x6x6-2007-06-01	Polarity: Horizontal
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 6: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

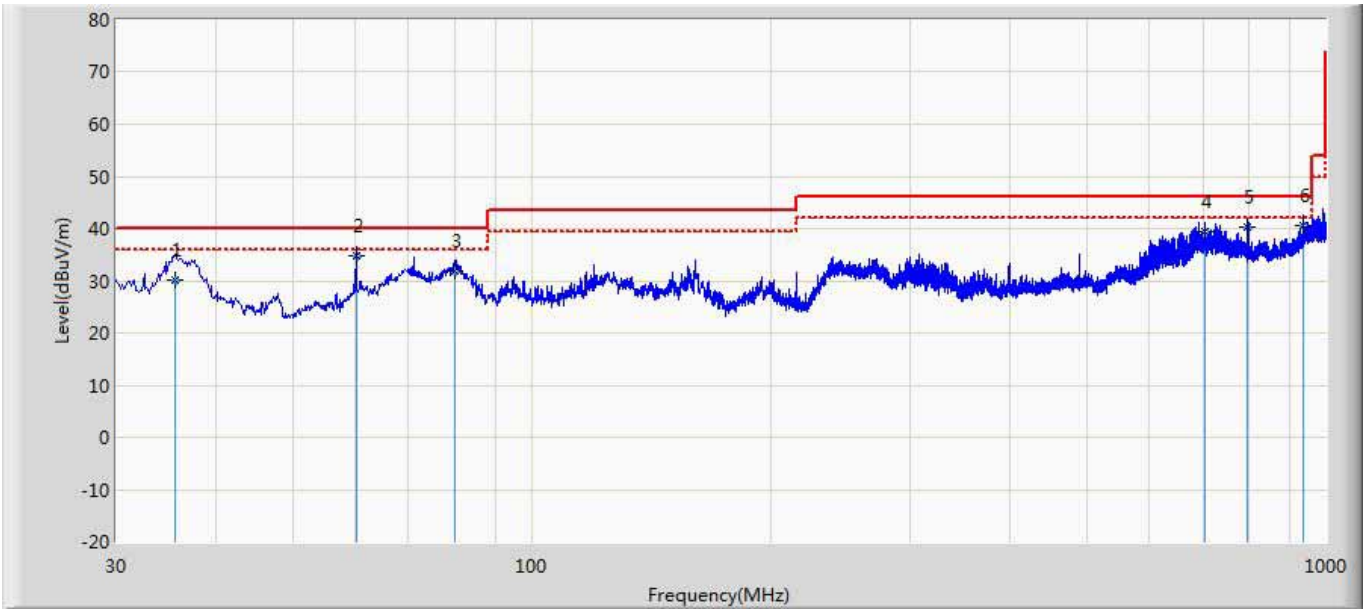


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		31.470	28.488	26.558	-11.512	40.000	24.425	0.615	23.110	200	189	QP
2		94.760	22.300	30.455	-21.200	43.500	13.945	1.050	23.150	100	5	QP
3		167.181	25.418	40.031	-18.082	43.500	7.047	1.400	23.060	200	43	QP
4		318.220	34.684	41.236	-11.316	46.000	14.468	1.930	22.950	200	125	QP
5	*	799.760	37.384	32.478	-8.616	46.000	24.116	3.110	22.320	200	263	QP
6		992.910	37.624	31.974	-16.376	54.000	24.440	3.480	22.270	200	98	QP

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 03:37
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 4
Probe: 9x6x6-2007-06-01	Polarity: Vertical
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 6: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

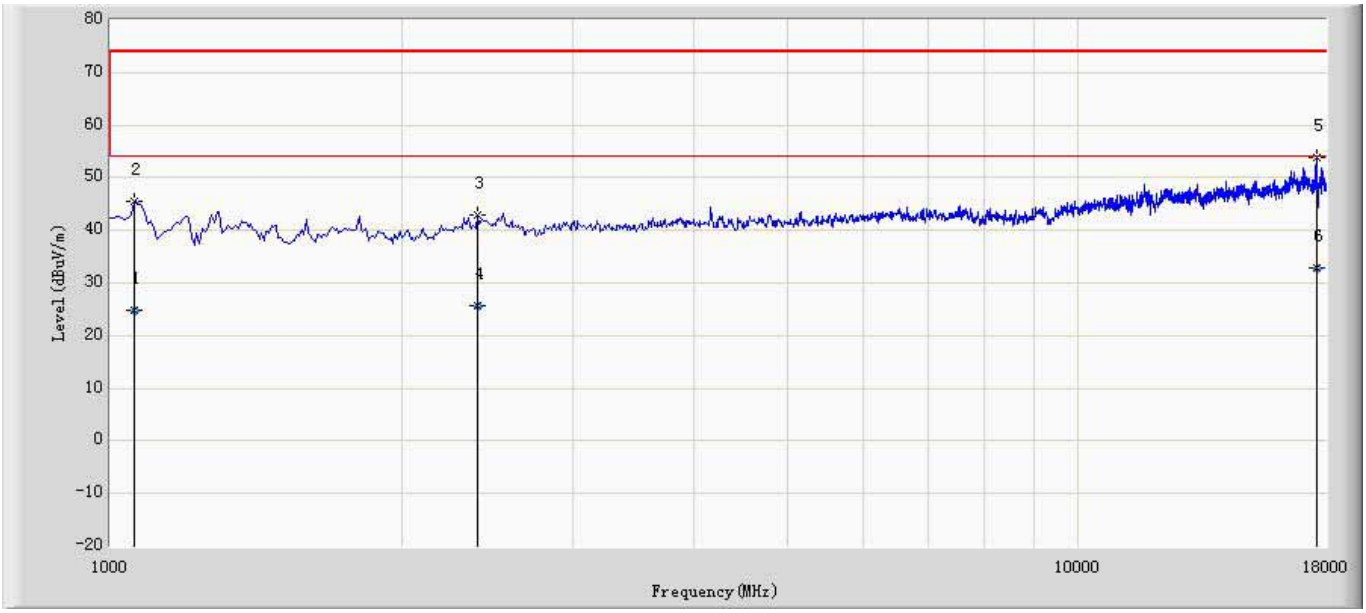


NO	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		35.630	30.040	36.830	-9.960	40.000	15.740	0.648	23.178	100	84	QP
2	*	60.120	34.911	50.916	-5.089	40.000	6.195	0.840	23.040	100	360	QP
3		80.100	31.884	43.917	-8.116	40.000	10.107	0.960	23.100	100	196	QP
4		703.155	39.558	38.019	-6.442	46.000	21.139	2.940	22.540	100	15	QP
5		796.560	40.387	37.424	-5.613	46.000	22.193	3.110	22.340	100	34	QP
6		935.330	40.512	34.709	-5.488	46.000	24.890	3.370	22.457	100	59	QP

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 06:12
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: 9120D_1-18G_Horn	Polarity: Horizontal
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 6: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

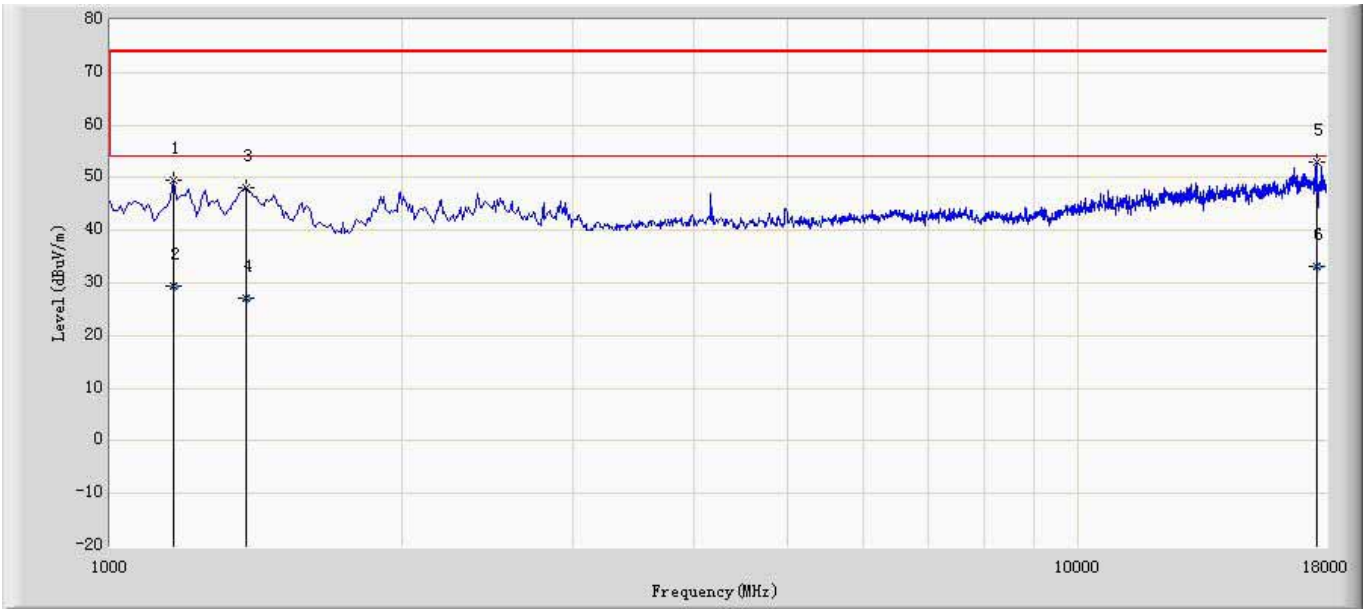


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		1058.859	24.750	31.129	-29.250	54.000	24.418	3.663	34.460	100	25	AV
2		1059.500	45.487	51.863	-28.513	74.000	24.420	3.664	34.460	100	25	PK
3		2394.000	42.936	44.959	-31.064	74.000	27.240	5.657	34.920	100	85	PK
4		2395.786	25.609	27.623	-28.391	54.000	27.246	5.659	34.920	100	85	AV
5	*	17592.000	53.906	28.785	-20.094	74.000	42.130	16.281	33.290	100	286	PK
6		17594.895	32.742	7.575	-21.258	54.000	42.162	16.293	33.288	100	286	AV

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 06:12
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: 9120D_1-18G_Horn	Polarity: Vertical
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 6: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

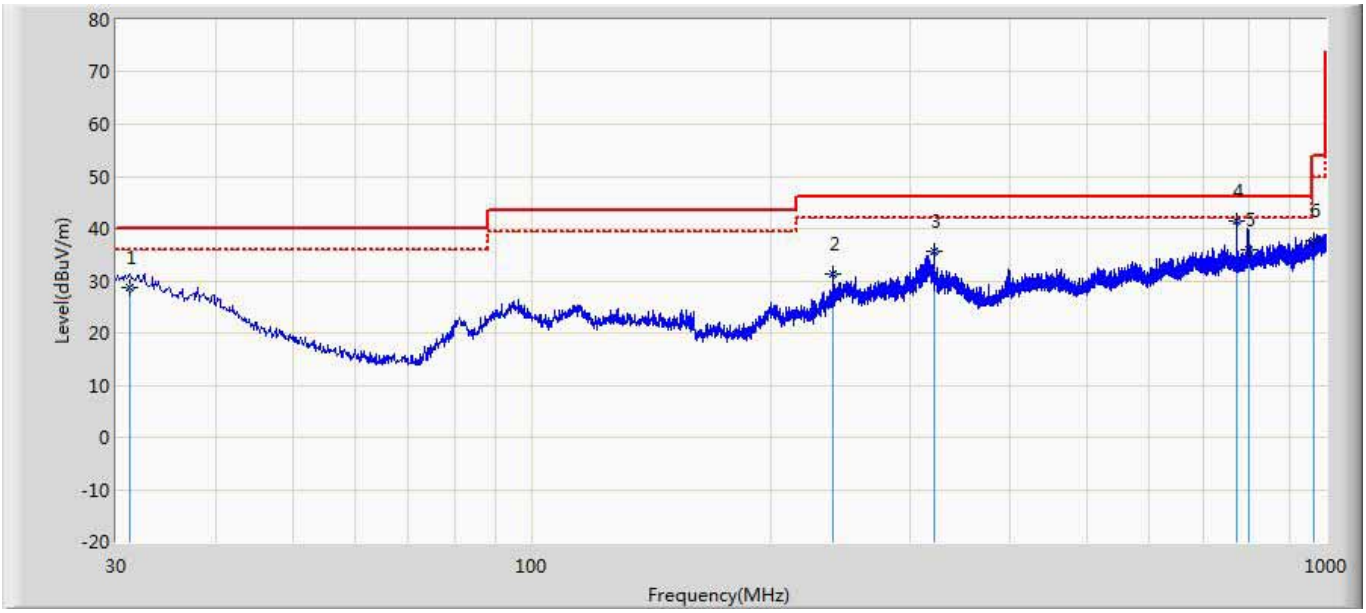


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		1161.500	49.542	55.532	-24.458	74.000	24.625	3.835	34.450	100	59	PK
2		1162.860	29.412	35.397	-24.588	54.000	24.627	3.837	34.450	100	59	AV
3		1382.500	48.061	53.242	-25.939	74.000	25.065	4.204	34.450	100	196	PK
4		1383.856	26.997	32.174	-27.003	54.000	25.067	4.206	34.450	100	196	AV
5		17592.000	53.015	27.894	-20.985	74.000	42.130	16.281	33.290	100	26	PK
6	*	17593.456	33.259	8.115	-20.741	54.000	42.146	16.287	33.289	100	26	AV

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 03:36
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 4
Probe: 9x6x6-2007-06-01	Polarity: Horizontal
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 7: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)	

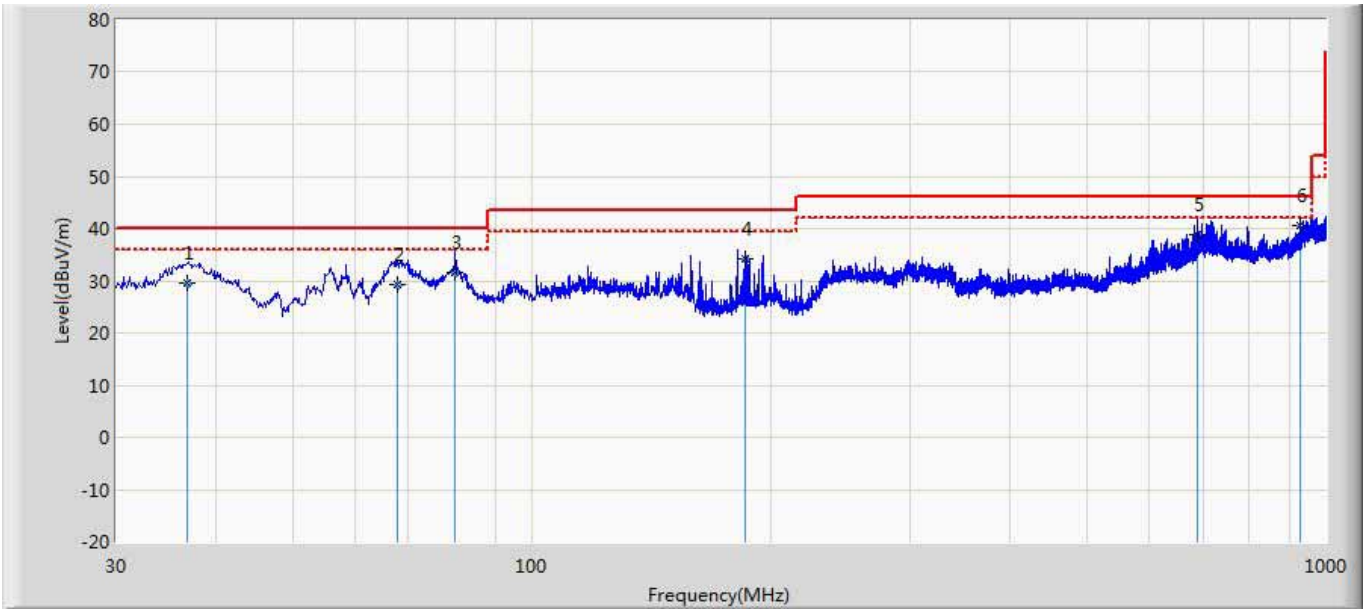


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		31.260	28.601	26.671	-11.399	40.000	24.423	0.613	23.106	200	355	QP
2		240.000	31.287	40.212	-14.713	46.000	12.705	1.670	23.300	100	209	QP
3		321.120	35.590	41.961	-10.410	46.000	14.649	1.940	22.960	200	248	QP
4	*	772.120	41.587	37.266	-4.413	46.000	23.751	3.070	22.499	200	103	QP
5		799.760	35.884	30.978	-10.116	46.000	24.116	3.110	22.320	100	89	QP
6		966.788	37.718	32.350	-16.282	54.000	24.228	3.430	22.290	100	360	QP

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 03:36
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 4
Probe: 9x6x6-2007-06-01	Polarity: Vertical
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 7: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)	

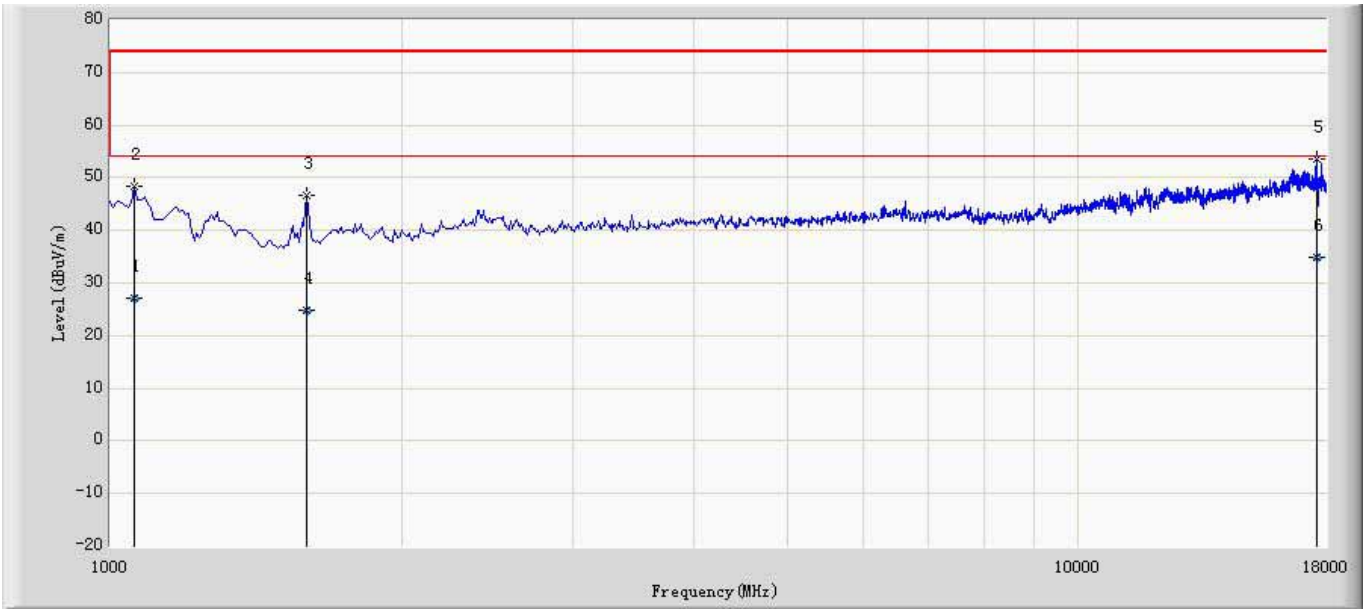


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		36.880	29.516	36.822	-10.484	40.000	15.235	0.661	23.202	100	206	QP
2		67.680	29.369	42.907	-10.631	40.000	8.642	0.880	23.060	200	355	QP
3		80.150	31.589	43.613	-8.411	40.000	10.116	0.960	23.100	100	56	QP
4		186.080	34.157	38.509	-9.343	43.500	17.297	1.480	23.129	100	78	QP
5		689.677	38.769	37.230	-7.231	46.000	21.100	2.910	22.471	100	29	QP
6	*	927.080	40.645	34.949	-5.355	46.000	24.880	3.358	22.542	100	315	QP

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 06:10
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: 9120D_1-18G_Horn	Polarity: Horizontal
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 7: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)	

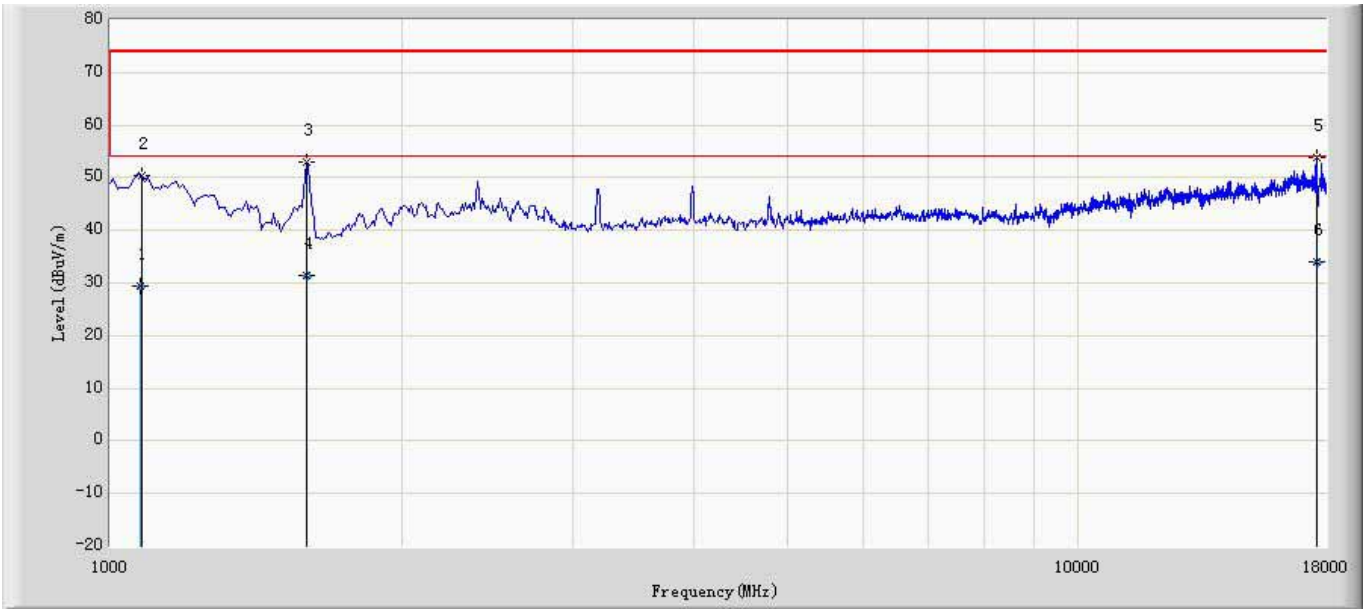


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		1057.566	26.995	33.379	-27.005	54.000	24.415	3.661	34.460	100	26	AV
2		1059.500	48.314	54.690	-25.686	74.000	24.420	3.664	34.460	100	26	PK
3		1595.000	46.607	51.108	-27.393	74.000	25.410	4.539	34.450	100	267	PK
4		1596.786	24.962	29.458	-29.038	54.000	25.412	4.542	34.450	100	267	AV
5		17592.000	53.673	28.552	-20.327	74.000	42.130	16.281	33.290	100	48	PK
6	*	17593.590	34.880	9.734	-19.120	54.000	42.148	16.288	33.289	100	48	AV

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 06:10
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: 9x6x6-2007-06-01	Polarity: Vertical
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 7: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)	

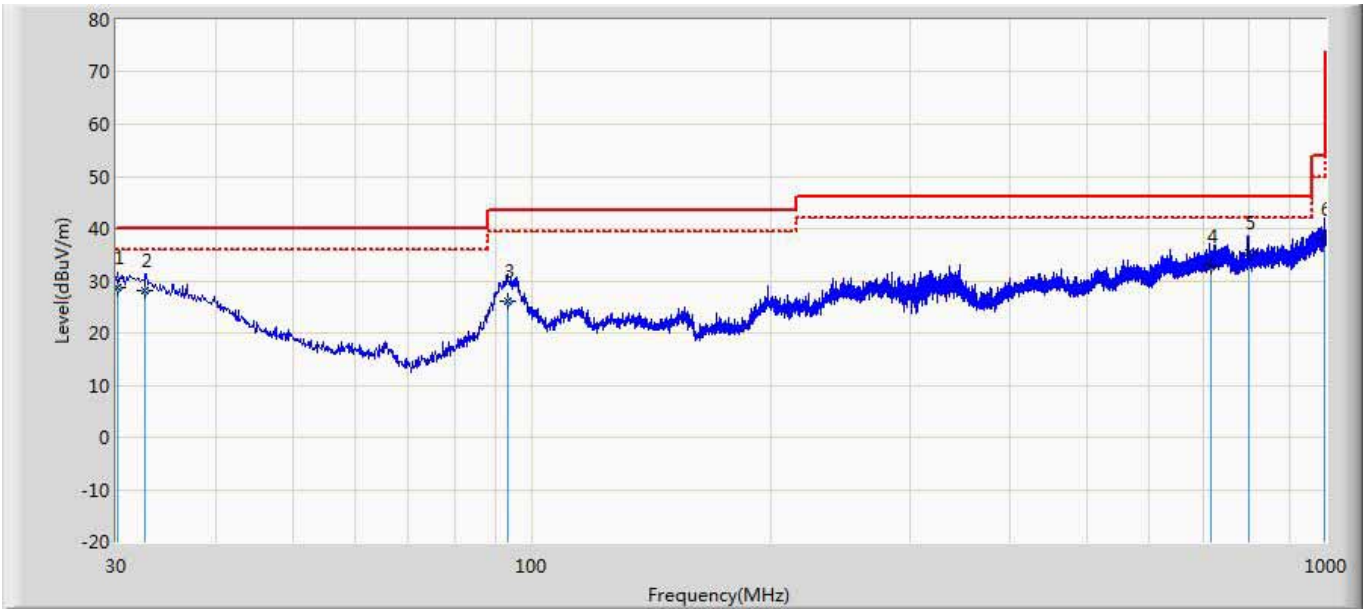


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		1075.830	29.356	45.963	-24.644	54.000	28.340	2.345	47.291	100	54	AV
2		1076.500	50.505	67.113	-23.495	74.000	28.339	2.345	47.292	100	54	PK
3		1595.000	53.079	69.146	-20.921	74.000	28.088	2.890	47.045	100	39	PK
4		1597.452	31.485	47.523	-22.515	54.000	28.114	2.899	47.050	100	39	AV
5		17592.000	53.829	40.543	-20.171	74.000	40.863	17.000	44.577	100	185	PK
6	*	17592.146	34.118	20.850	-19.882	54.000	40.863	16.982	44.577	100	185	AV

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 03:38
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 4
Probe: 9x6x6-2007-06-01	Polarity: Horizontal
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 10: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

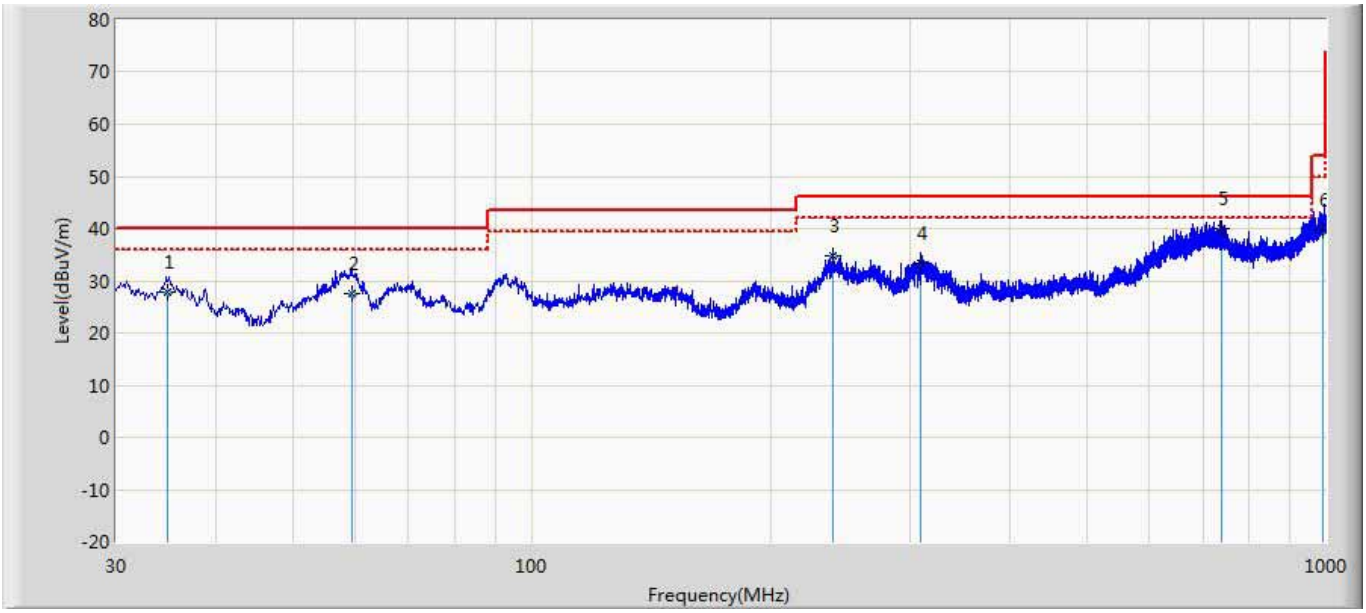


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		30.110	28.753	26.832	-11.247	40.000	24.402	0.601	23.082	200	53	QP
2		32.630	28.250	26.306	-11.750	40.000	24.444	0.627	23.127	200	79	QP
3		93.240	26.153	35.217	-17.347	43.500	13.044	1.042	23.150	100	35	QP
4		715.130	32.761	29.385	-13.239	46.000	22.983	2.963	22.570	180	309	QP
5	*	799.360	35.369	30.467	-10.631	46.000	24.112	3.110	22.320	200	49	QP
6		997.260	37.941	32.241	-16.059	54.000	24.480	3.490	22.270	100	52	QP

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 03:39
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 4
Probe: 9x6x6-2007-06-01	Polarity: Vertical
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 10: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

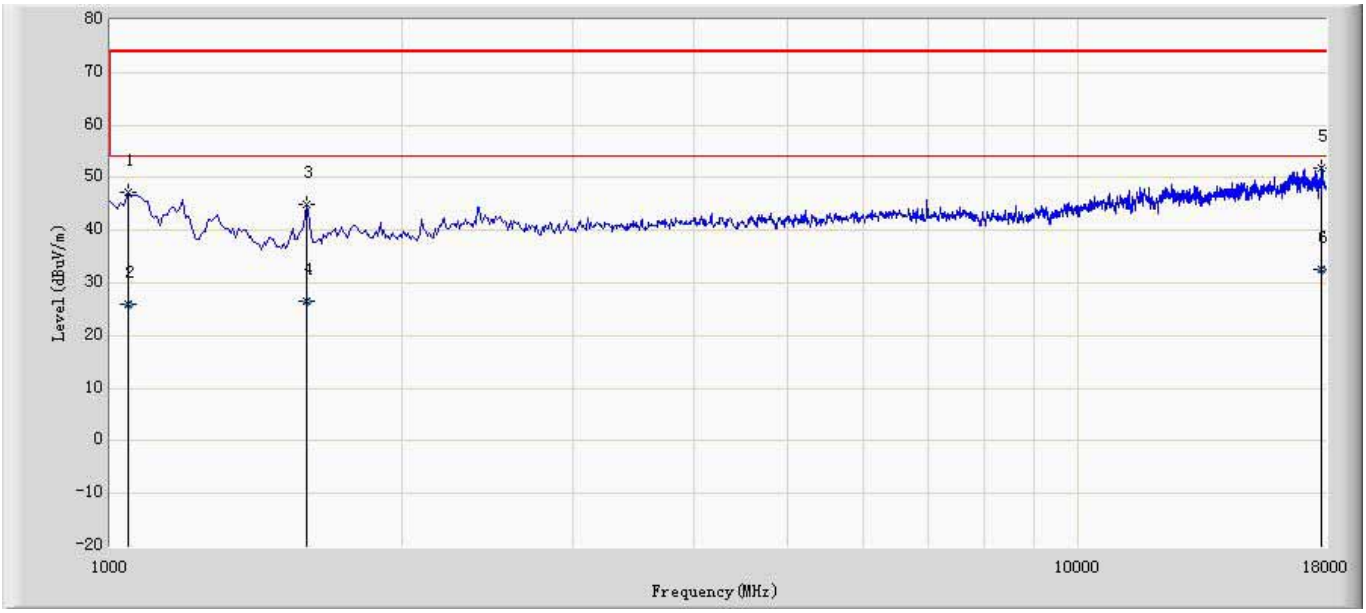


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		34.890	27.806	34.245	-12.194	40.000	16.091	0.640	23.170	100	56	QP
2		59.330	27.450	43.340	-12.550	40.000	6.310	0.832	23.032	100	209	QP
3		240.000	34.879	37.929	-11.121	46.000	18.580	1.670	23.300	100	53	QP
4		308.730	33.401	41.816	-12.599	46.000	12.641	1.894	22.950	100	79	QP
5	*	737.680	39.939	38.018	-6.061	46.000	21.526	3.006	22.610	100	19	QP
6		992.680	39.796	33.606	-14.204	54.000	24.980	3.480	22.270	100	360	QP

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 06:11
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: 9120D_1-18G_Horn	Polarity: Horizontal
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 10: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

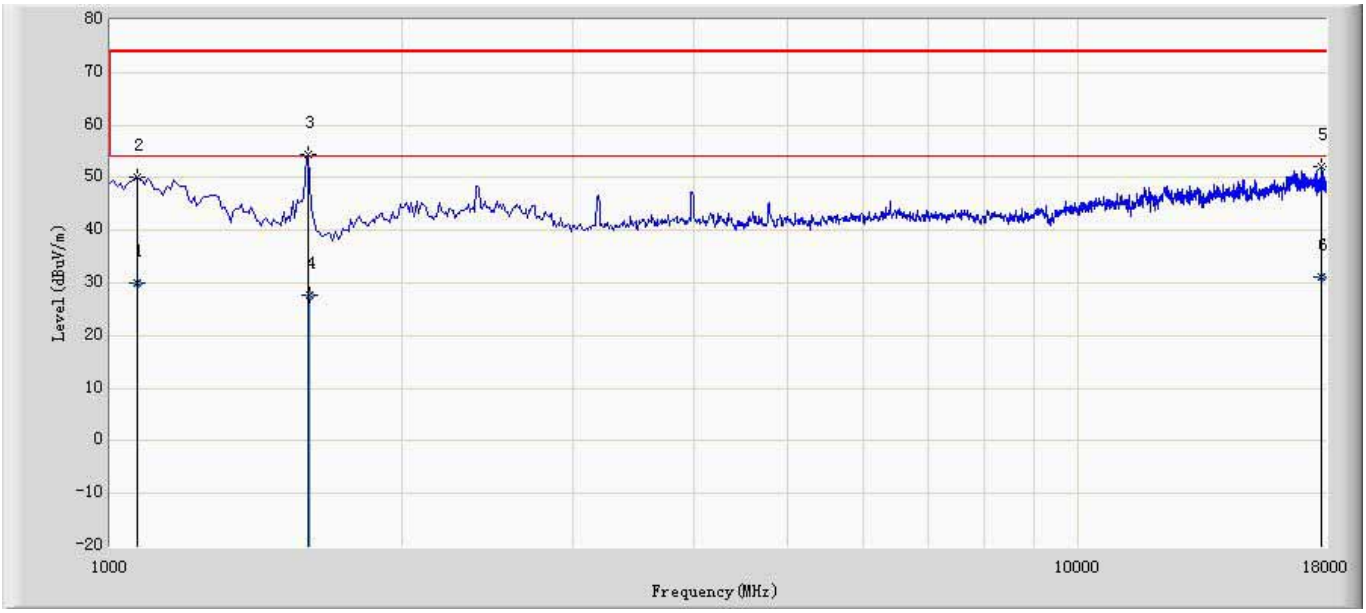


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		1042.500	47.364	53.810	-26.636	74.000	24.385	3.629	34.460	100	26	PK
2		1043.799	25.950	32.390	-28.050	54.000	24.387	3.632	34.460	100	26	AV
3		1595.000	44.830	49.331	-29.170	74.000	25.410	4.539	34.450	100	54	PK
4		1596.465	26.676	31.172	-27.324	54.000	25.412	4.542	34.450	100	54	AV
5		17804.500	51.898	23.412	-22.102	74.000	44.515	17.176	33.205	100	89	PK
6	*	17805.560	32.495	3.992	-21.505	54.000	44.527	17.180	33.204	100	89	AV

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 06:11
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: 9120D_1-18G_Horn	Polarity: Vertical
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 10: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)	

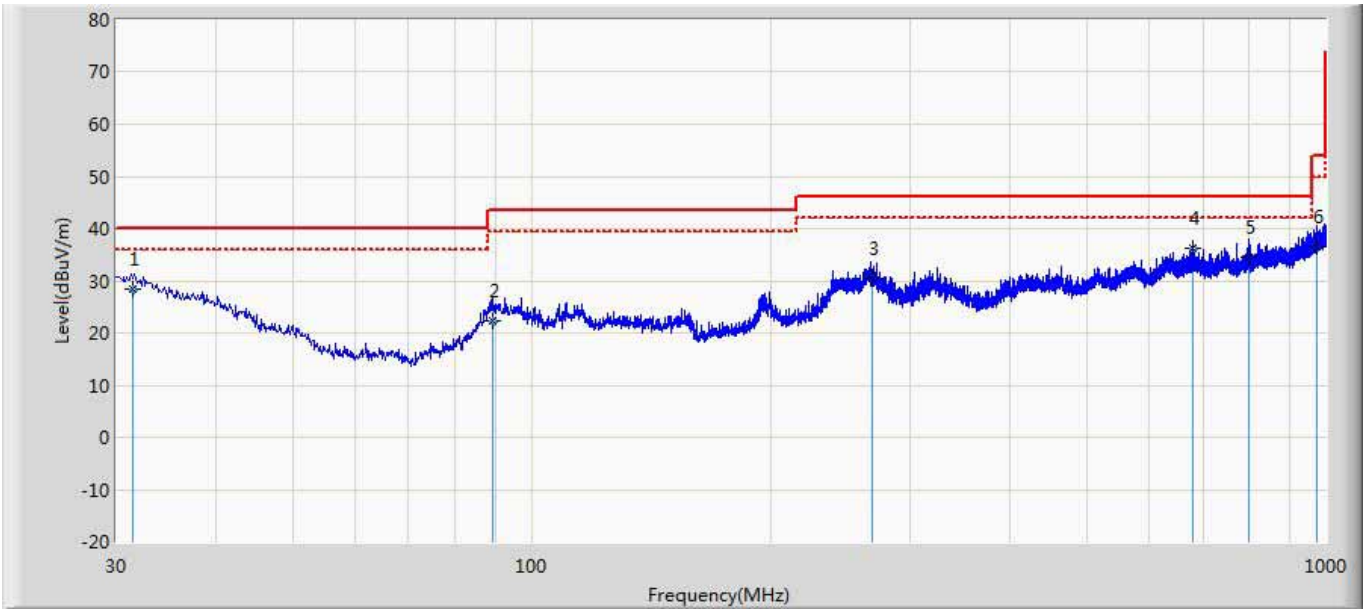


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		1067.153	29.959	36.305	-24.041	54.000	24.438	3.676	34.460	100	49	AV
2		1068.000	50.153	56.496	-23.847	74.000	24.440	3.677	34.460	100	49	PK
3	*	1603.500	54.500	58.977	-19.500	74.000	25.420	4.553	34.450	100	15	PK
4		1605.460	27.807	32.279	-26.193	54.000	25.422	4.556	34.450	100	15	AV
5		17804.500	52.040	23.554	-21.960	74.000	44.515	17.176	33.205	100	76	PK
6		17805.820	31.190	2.683	-22.810	54.000	44.530	17.181	33.204	100	76	AV

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 03:39
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 4
Probe: 9x6x6-2007-06-01	Polarity: Horizontal
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 11: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)	

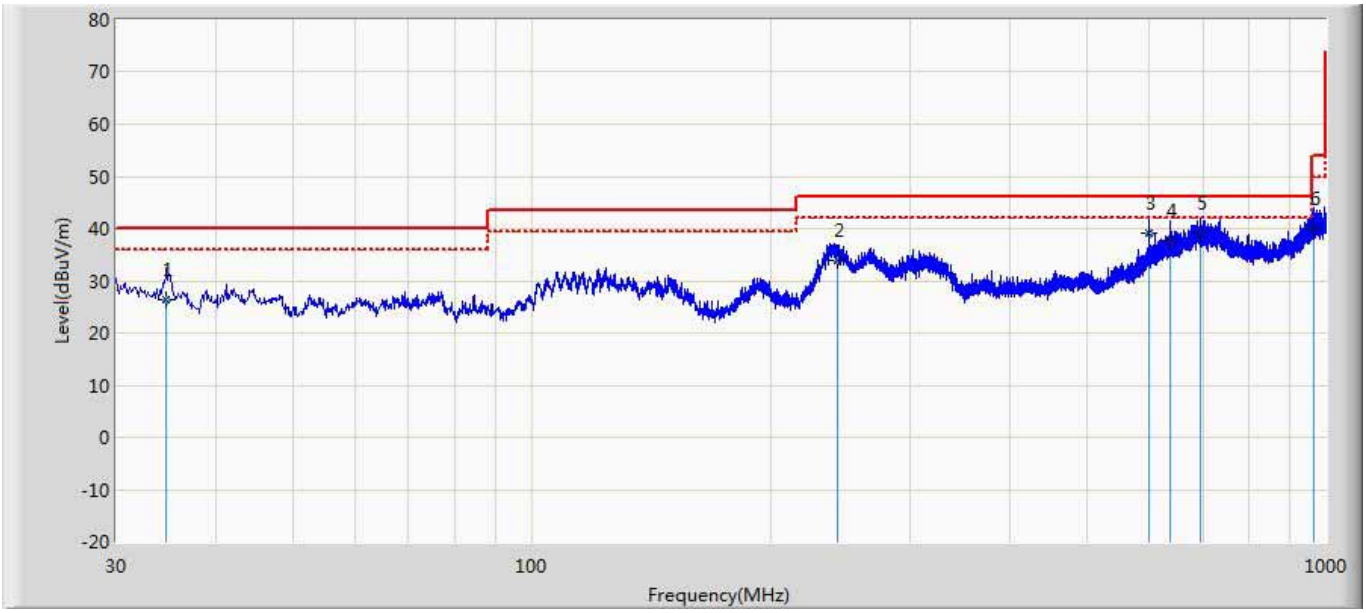


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		31.490	28.387	26.457	-11.613	40.000	24.425	0.615	23.111	200	306	QP
2		89.466	22.413	33.348	-21.087	43.500	11.178	1.020	23.133	187	329	QP
3		267.920	30.350	38.387	-15.650	46.000	13.400	1.760	23.197	200	55	QP
4	*	680.760	36.285	32.723	-9.715	46.000	23.092	2.890	22.420	100	68	QP
5		799.890	34.489	29.582	-11.511	46.000	24.117	3.110	22.320	200	154	QP
6		974.850	36.616	31.155	-17.384	54.000	24.291	3.450	22.280	168	349	QP

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 03:39
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 4
Probe: 9x6x6-2007-06-01	Polarity: Vertical
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 11: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)	

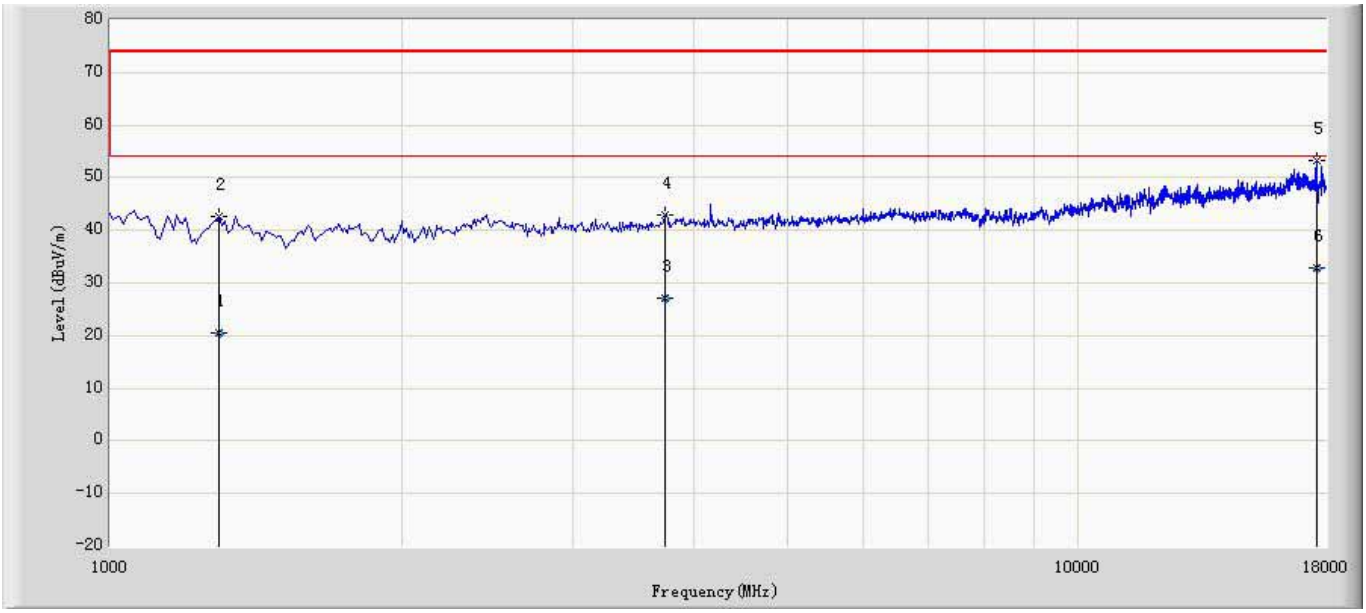


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		34.650	26.331	32.600	-13.669	40.000	16.258	0.638	23.166	100	49	QP
2		242.210	33.898	36.993	-12.102	46.000	18.535	1.678	23.308	100	97	QP
3		599.110	39.051	38.130	-6.949	46.000	21.041	2.670	22.790	100	26	QP
4		637.680	37.645	36.191	-8.355	46.000	21.075	2.775	22.395	100	83	QP
5	*	696.480	39.067	37.548	-6.933	46.000	21.100	2.930	22.511	129	324	QP
6		966.260	40.064	33.984	-13.936	54.000	24.940	3.430	22.290	100	181	QP

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 06:12
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: 9120D_1-18G_Horn	Polarity: Horizontal
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 11: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)	

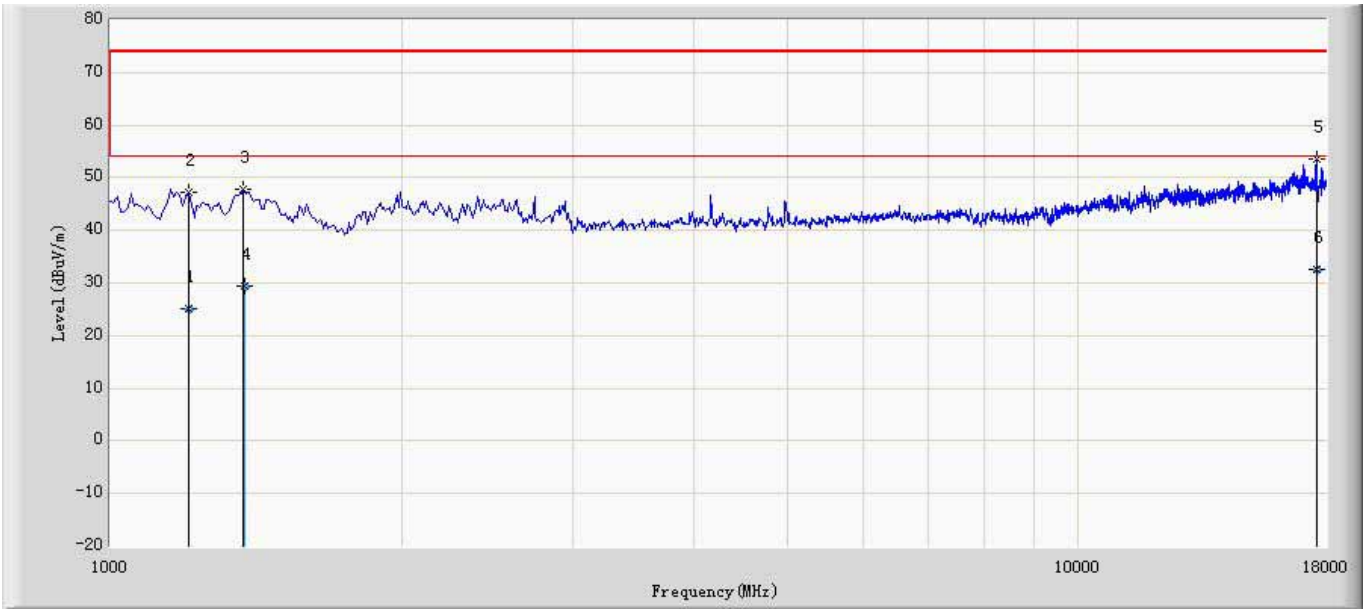


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		1296.356	20.440	25.939	-33.560	54.000	24.893	4.058	34.450	100	25	AV
2		1297.500	42.724	48.219	-31.276	74.000	24.895	4.060	34.450	100	25	PK
3		3736.566	27.028	25.438	-26.972	54.000	29.169	7.080	34.660	100	256	AV
4		3737.000	42.893	41.302	-31.107	74.000	29.170	7.081	34.660	100	256	PK
5	*	17592.000	53.149	28.028	-20.851	74.000	42.130	16.281	33.290	200	56	PK
6		17593.360	32.758	7.615	-21.242	54.000	42.145	16.287	33.289	200	56	AV

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 + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2012/03/13 - 06:12
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: 9120D_1-18G_Horn	Polarity: Vertical
EUT: Notebook PC	Power: AC 120V/60Hz
Note: Mode 11: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		1203.940	25.029	30.867	-28.971	54.000	24.710	3.902	34.450	100	26	AV
2		1204.000	47.238	53.076	-26.762	74.000	24.710	3.902	34.450	100	26	PK
3		1374.000	47.809	53.018	-26.191	74.000	25.050	4.191	34.450	100	263	PK
4		1375.656	29.396	34.600	-24.604	54.000	25.053	4.193	34.450	100	263	AV
5	*	17592.000	53.578	28.457	-20.422	74.000	42.130	16.281	33.290	100	23	PK
6		17594.566	32.574	7.412	-21.426	54.000	42.159	16.292	33.288	100	23	AV

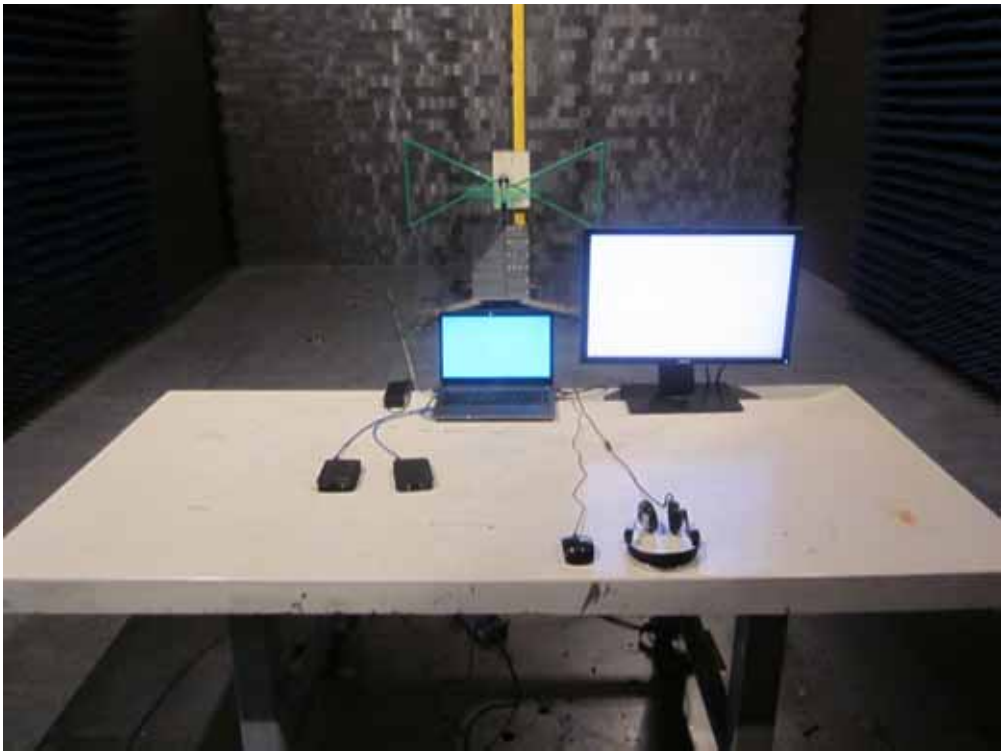
Note:

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 + Factor(Probe+Cable-Amp).

4.6. Test Photograph

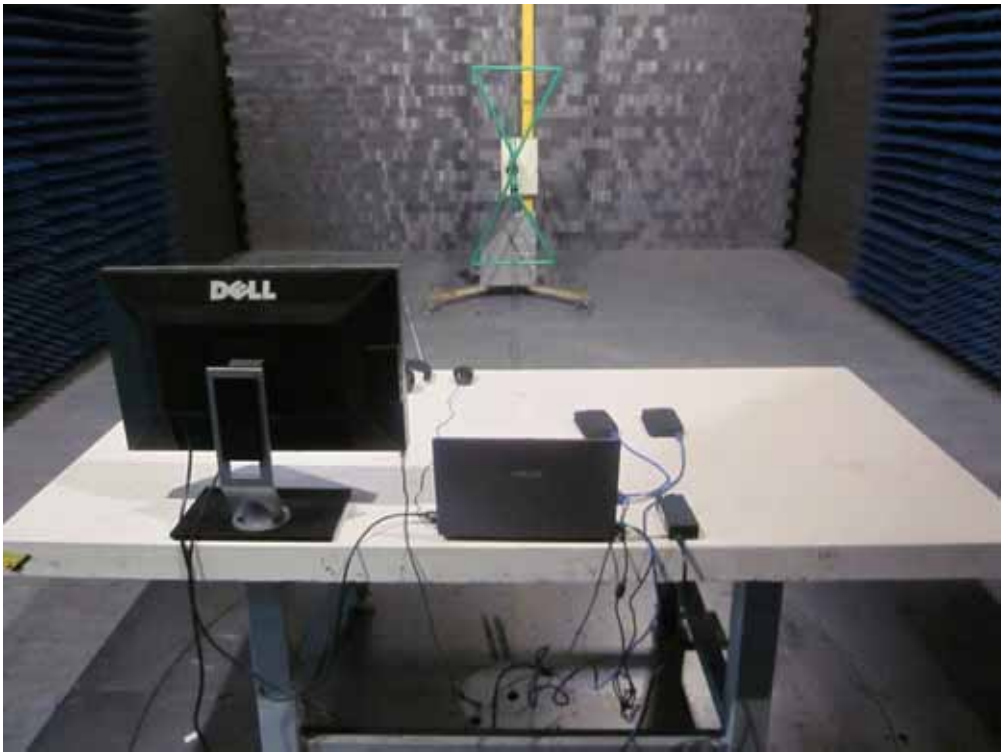
Test Mode : Mode 2: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)

Description : Front View of Radiated Test



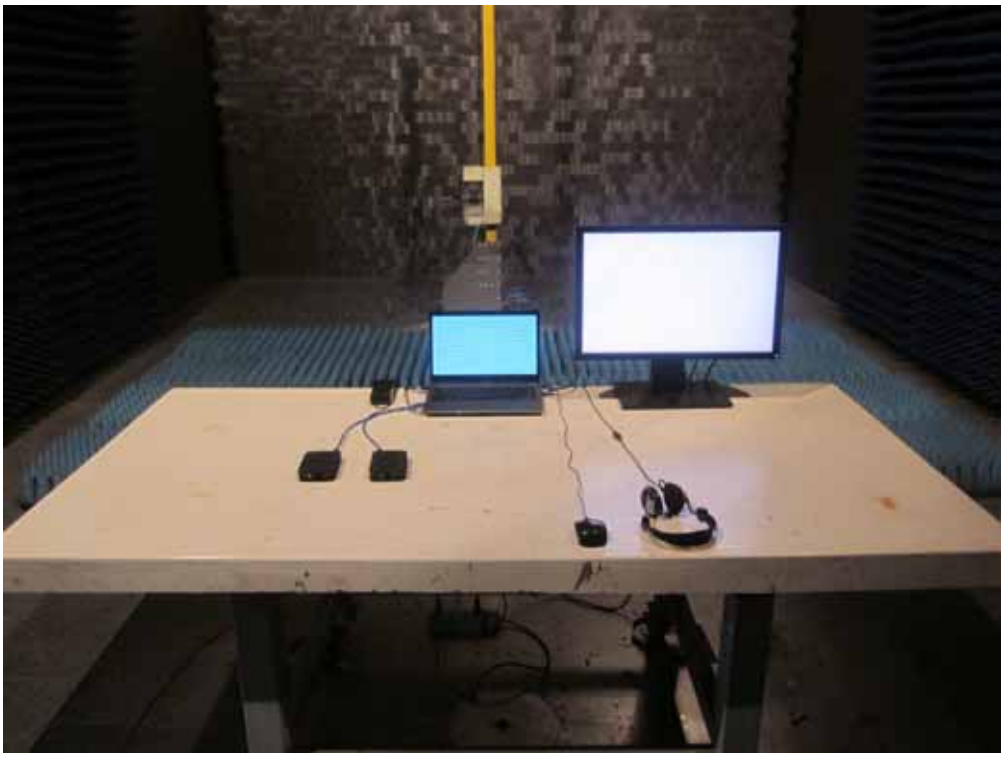
Test Mode : Mode 2: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)

Description : Back View of Radiated Test



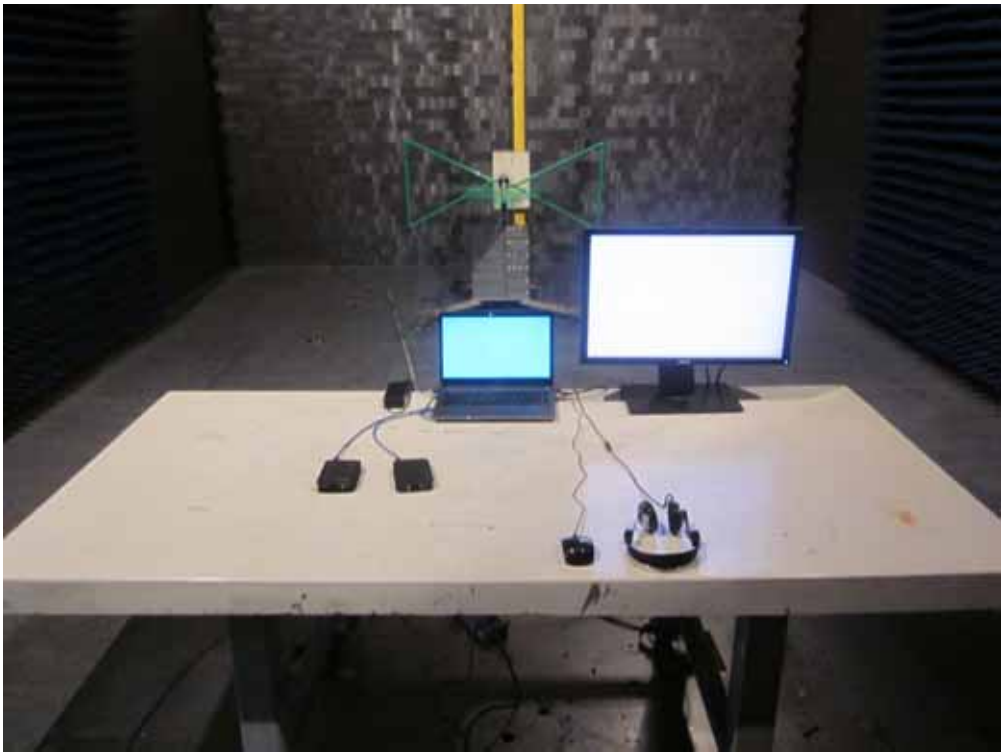
Test Mode : Mode 2: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)

Description : Front View of High Frequency Radiated Test



Test Mode : Mode 4: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)

Description : Front View of Radiated Test

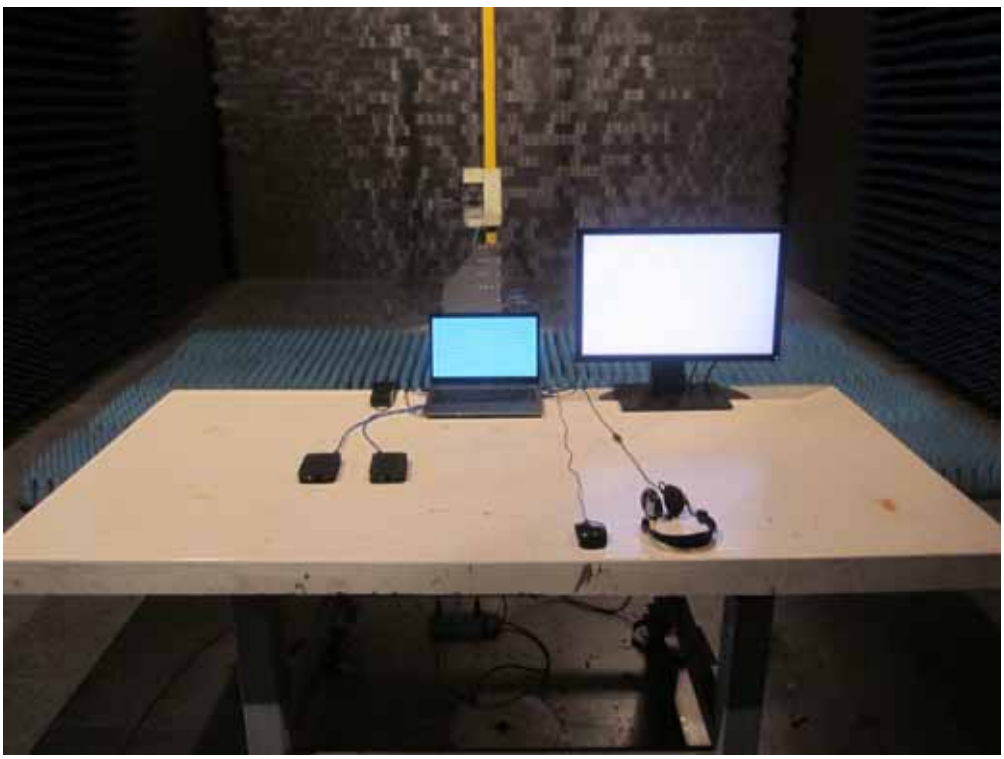


Test Mode : Mode 4: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)

Description : Back View of Radiated Test

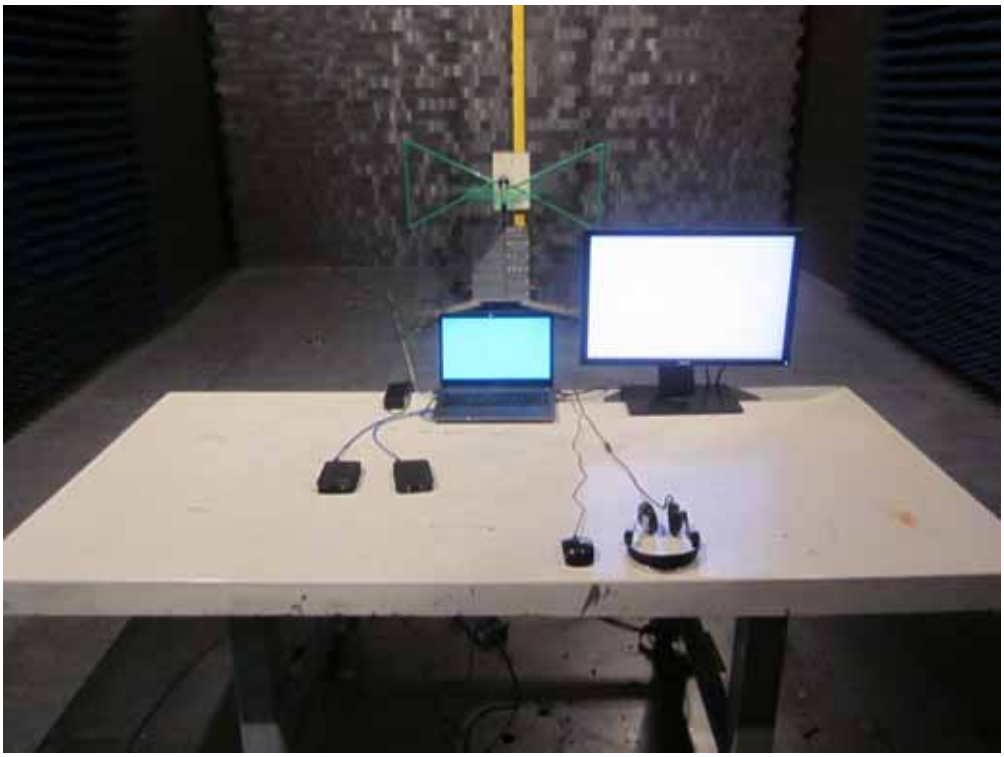
Test Mode : Mode 4: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)

Description : Front View of High Frequency Radiated Test



Test Mode : Mode 6: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)

Description : Front View of Radiated Test

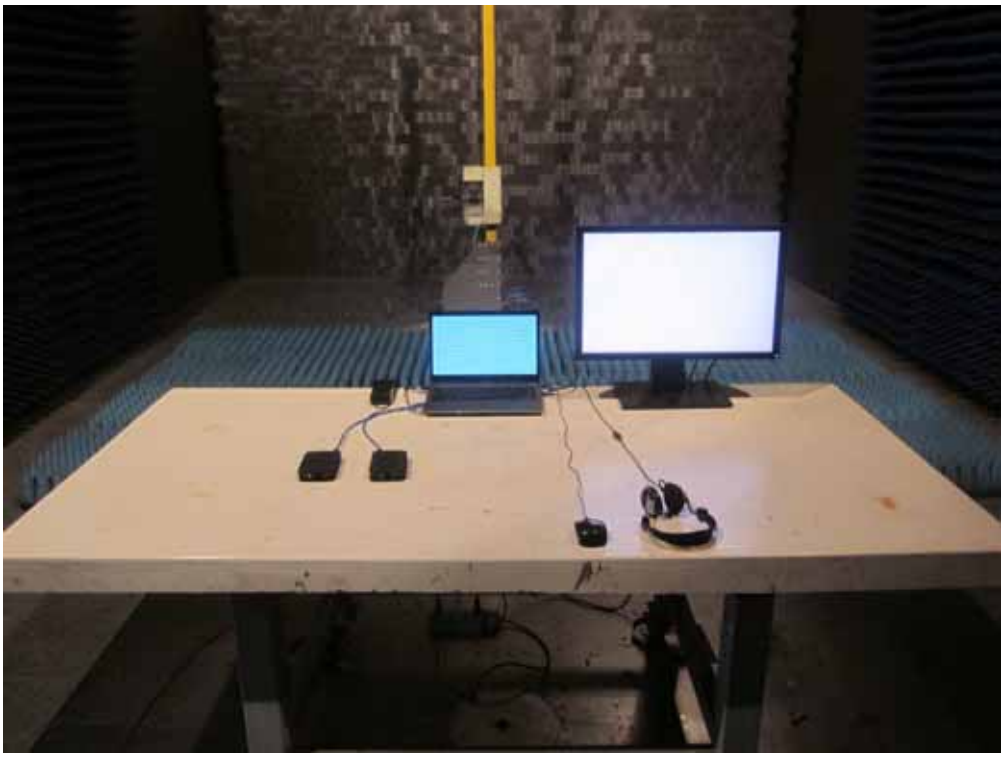


Test Mode : Mode 6: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)

Description : Back View of Radiated Test

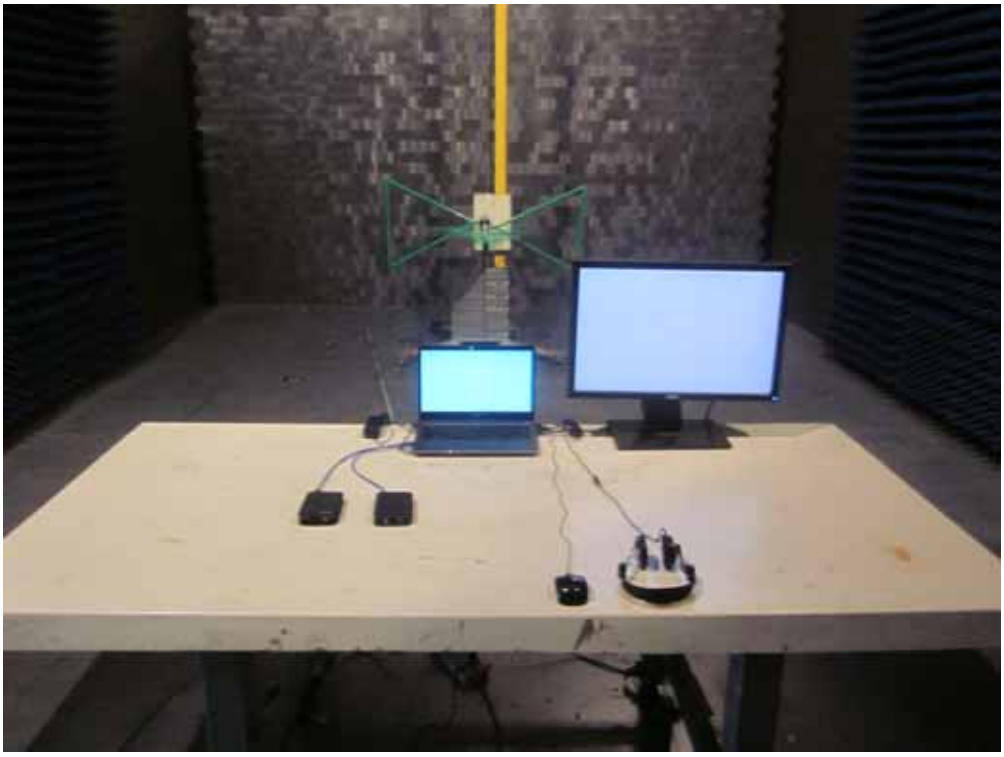
Test Mode : Mode 6: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)

Description : Front View of High Frequency Radiated Test



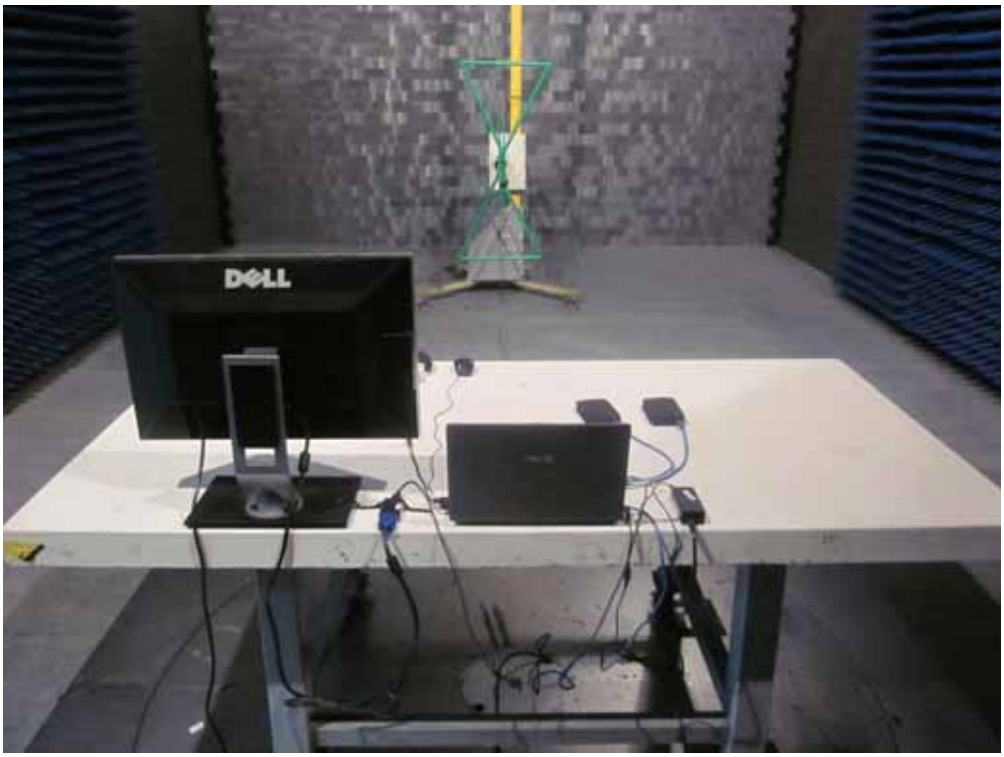
Test Mode : Mode 7: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)

Description : Front View of Radiated Test



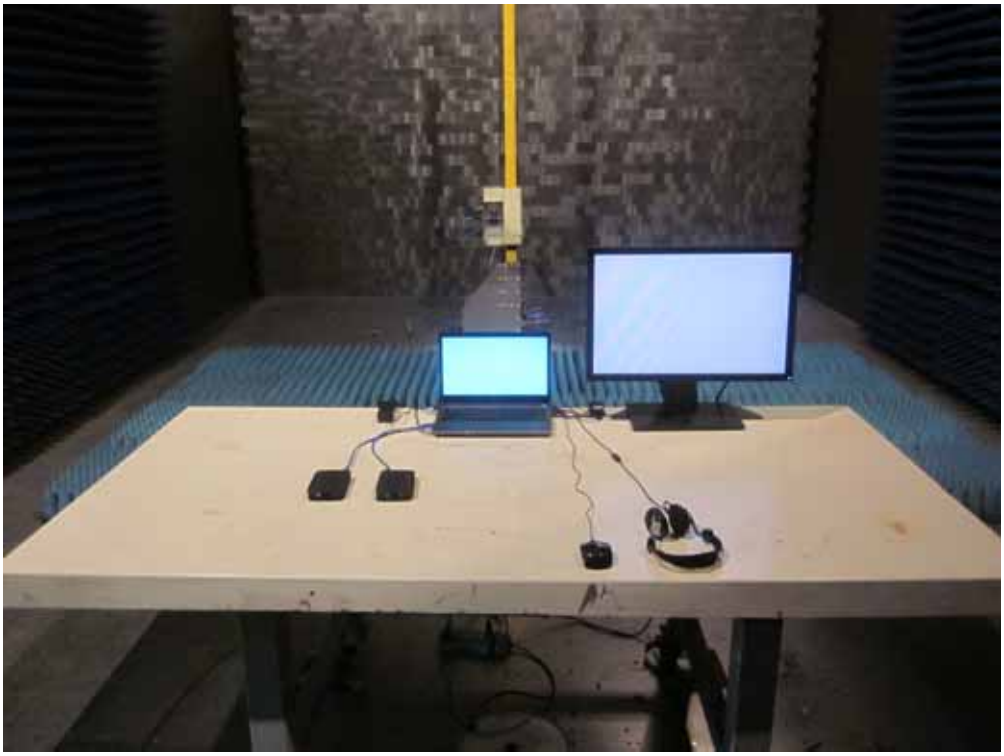
Test Mode : Mode 7: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)

Description : Back View of Radiated Test



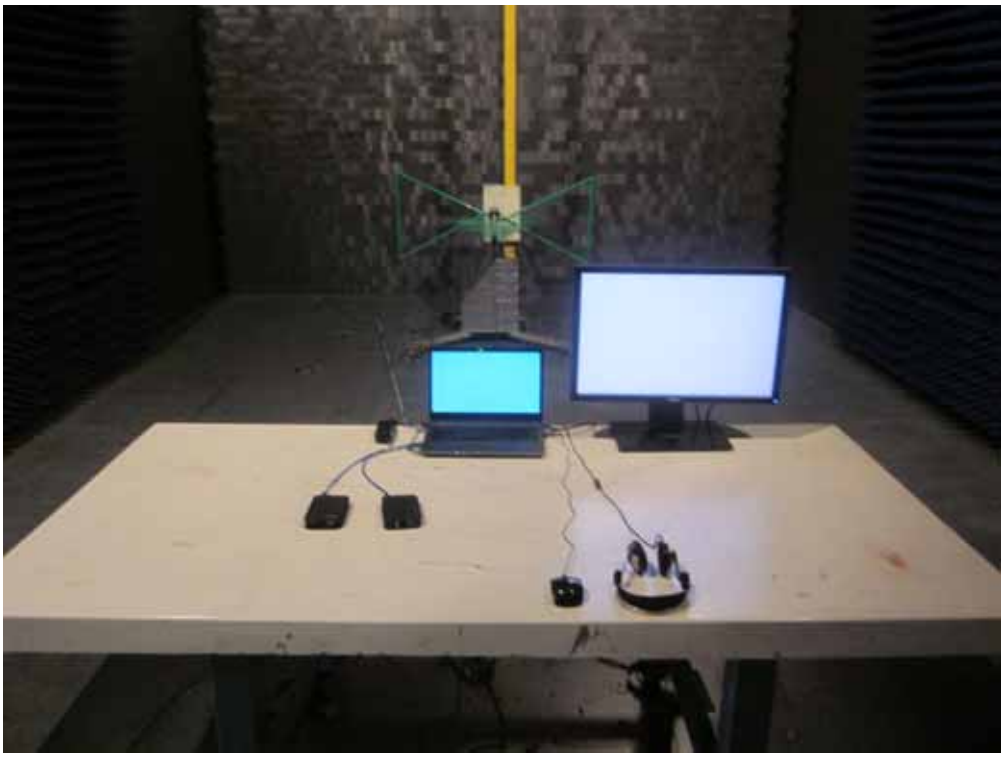
Test Mode : Mode 7: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)

Description : Front View of High Frequency Radiated Test



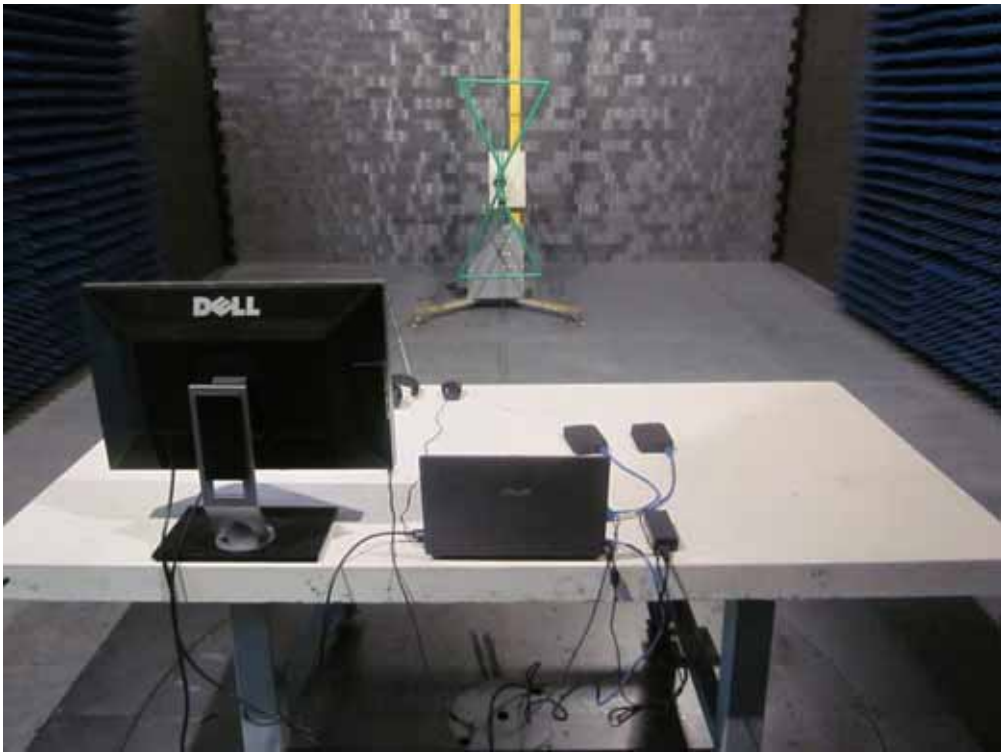
Test Mode : Mode 10: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)

Description : Front View of Radiated Test



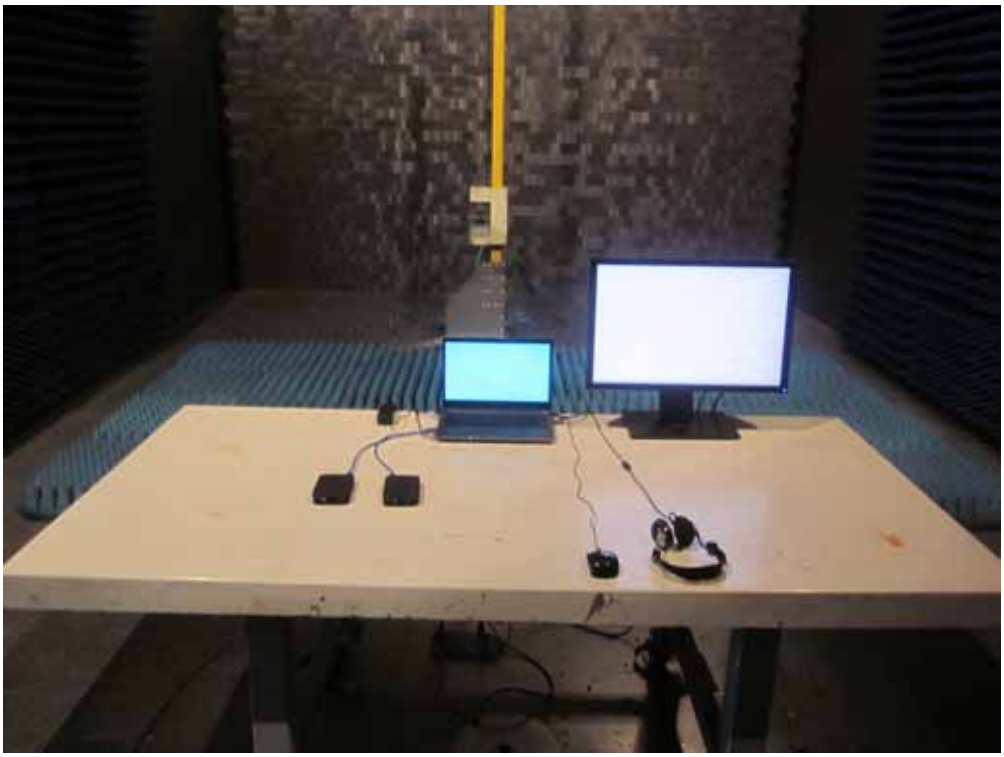
Test Mode : Mode 10: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)

Description : Back View of Radiated Test



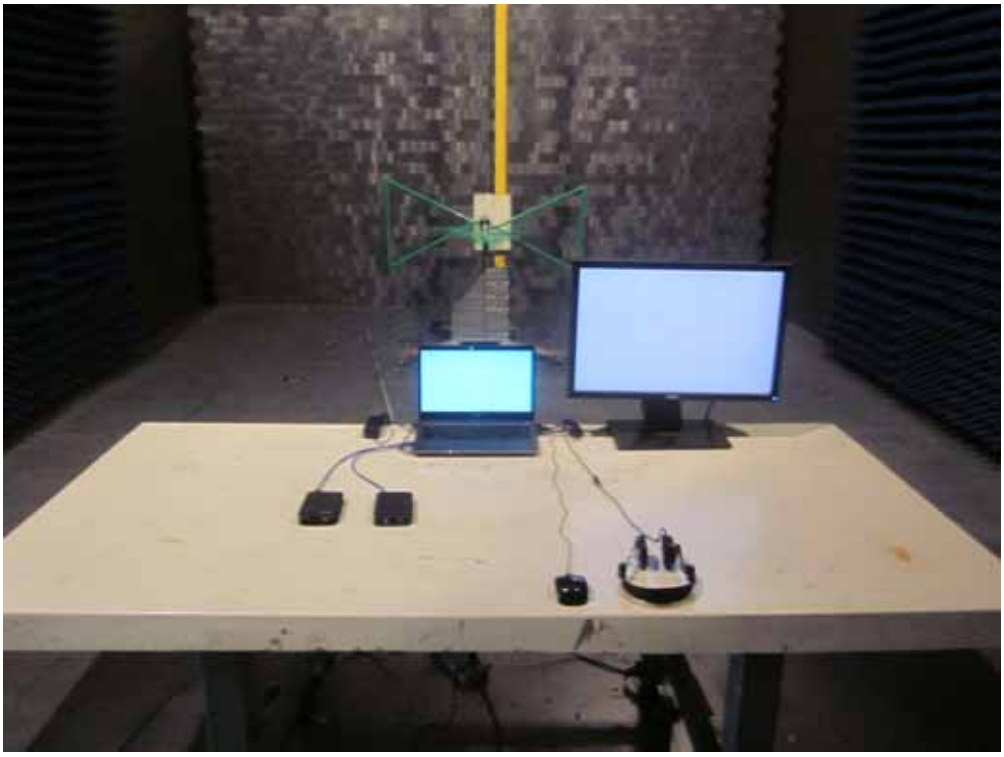
Test Mode : Mode 10: LCD(1366*768@60Hz)+HDMI(1366*768@60Hz)

Description : Front View of High Frequency Radiated Test



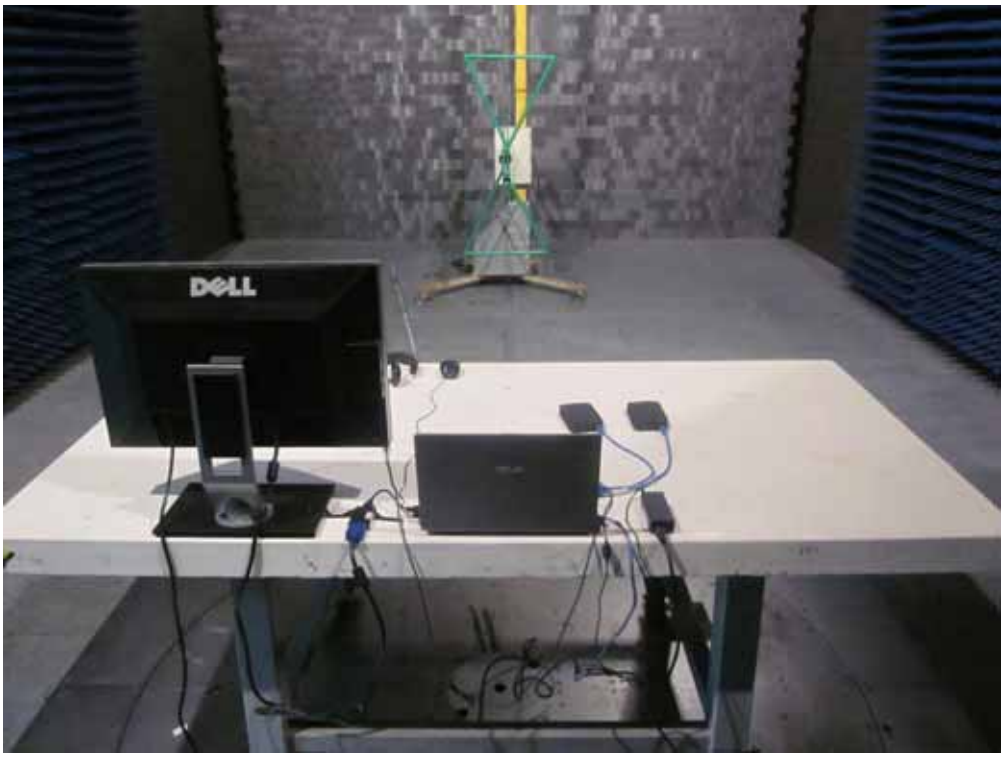
Test Mode : Mode 11: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)

Description : Front View of Radiated Test



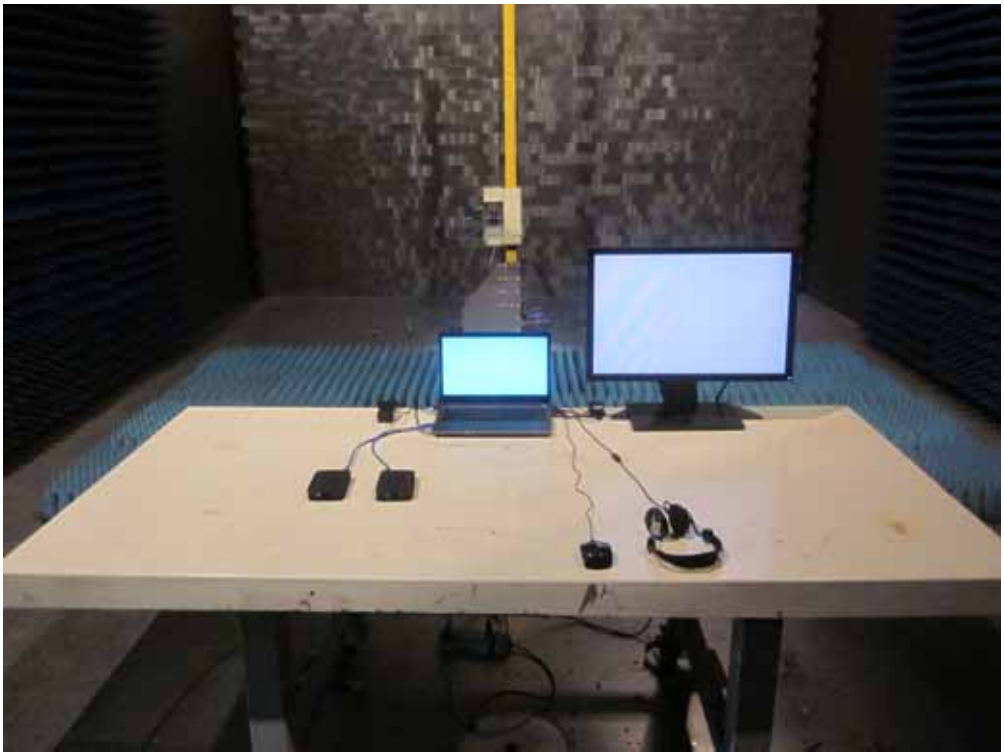
Test Mode : Mode 11: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)

Description : Back View of Radiated Test



Test Mode : Mode 11: LCD(1366*768@60Hz)+VGA(1366*768@60Hz)

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