Application for FCC Certificate On Behalf of F.I.T CO., LTD.

Graphic Card

Model No.: FI5400E-2G8H1GF(8-HDMI)

Serial No.: 20010071600006

FCC ID: YX5-FIT004

Prepared For: F.I.T CO., LTD.

3F UNION BLOG-ANNEX-24-5, SHIN-YOKOHAMA, KOHOKU-KU, YOKOHAMA-CITY, KANAGAWA

222-0033 JAPAN

Prepared By: Audix Technology (Shanghai) Co., Ltd.

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Report No.: ACI-F10144 Date of Test: Oct 14, 2010 Date of Report: Nov 12, 2010

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TEST REPORT FOR FCC CERTIFICATE

Applicant : F.I.T CO., LTD.

Manufacturer : Universal Electronics Co., Ltd.

EUT Description : Graphic Card

(A) Model No. : FI5400E-2G8H1GF(8-HDMI)

(B) Serial No. : 20010071600006 (C) Test Voltage : AC 120V/60Hz

Test Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 2009 AND ANSI C63.4-2003

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B (Class B) limits both radiated and conducted emissions.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report shows that the EUT (M/N: FI5400E-2G8H1GF(8-HDMI); S/N: 20010071600006) which was tested in 3m anechoic chamber on Oct 14, 2010 is technically compliance with the FCC official limits also.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report contains data that are not covered by the NVLAP accreditation.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test:	Oct 14, 2010	Date of Report:	Nov 12, 2010
Producer:	CANDY XI / Assistant		
	CANDY/XI / Assistant		•
Review:	DIO YANG / Deputy Assistant Manager		,

For and on behalf of Audix Technology (Shanghai) Co., Ltd.

Authorized Signature EMC SAMMY CHEN / Deputy Manager

1 SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Description of Test Item	Standard	Limits	Results
	EMISSION		
Conducted Disturbance at the Mains Terminal	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2009 AND ANSI C63.4-2003	15.107(a) Class B	Pass
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2009 AND ANSI C63.4-2003	15.109(a) Class B	Pass

GENERAL INFORMATION

2.1 Description of Equipment Under Test

Graphic Card Description

Type of EUT ✓ Production ☐ Pre-product ☐ Pro-type

Model No. FI5400E-2G8H1GF(8-HDMI)

Serial No. 20010071600006

Max Resolution HDMI 1920*1080P

Core (engine) clock 825MHz

Local Video Memory:

type/density

DDR3 1Gbit, 64M*16, 1.50V

Memory clock

Frequency

800MHz (1600Mbps data rate)

HDMI Cable Shielded, Detachable, 1.5m

Applicant F.I.T CO., LTD.

> 3F UNION BLOG-ANNEX-24-5, SHIN-YOKOHAMA, KOHOKU-KU,

YOKOHAMA-CITY, KANAGAWA 222-0033

JAPAN

Manufacturer Universal Electronics Co., Ltd.

No.88 Lane 100 Chun Guang Road, Xinzhuang

industrial Zone, Shanghai, China

Remark:

The EUT is a Graphic Card which input/output ports as follows:

(1) One VHDCI 1 Port

> : Connected with LCD Monitor#1 & #3 through VHDCI-4x-HDMI cable (two other HDMI ports was terminated)

One VHDCI 2 Port (2)

> : Connected with LCD Monitor#2 & #3 through VHDCI-4x-HDMI cable (two other HDMI ports was terminated)

2.2 Peripherals

2.2.1 PC

Manufacturer : HP Model Number : Z400

Serial Number: CNG023W1BZ

Power Cord : Unshielded, Detachable, 1.80m

Certificate : VCCI, FCC DoC, CE, CCC (A000111)

MIC (E-A011-04-2659B)

2.2.2 Printer

Manufacturer : HP Model Number : C3990A Serial Number : JPZX020487

Data Cable : Shielded, Detachable, 1.5m Certificate : GS, CE/EMC, C-Tick, FCC DoC

2.2.3 Keyboard

Manufacturer : Microsoft Model Number : KU-0459

Serial Number: 7691402450604

Data Cable : Shielded, Undetachable, 1.8m

Certificate : CE/EMC, FCC DoC, VCCI, MIC, C-Tick,

BSMI

2.2.4 Mouse

Manufacturer : DELL Model Number : MO56UO Serial Number : 443048231

Data Cable : Shielded, Undetachable, 1.8m.

Certificate : CE/EMC, FCC DoC, VCCI, MIC, C-Tick,

BSMI

2.2.5 Modem

Manufacturer : TP-LINK
Model Number : TM-EC5658V
Serial Number : 07123301053

Data Cable : Shielded, Detachable, 1.80m Certificate : CE/EMC, FCC DoC, CCC

2.2.6 LCD Monitor #1

Manufacturer : DELL Model Number : 2408WFPt

Serial Number: CN-ONN-792-74261-82M-0ASS

Data Cable : Shielded, Detachable, 1.80m, with two cores Certificate : FCC DoC, CE/EMC, BSMI, CCC, C-TICK,

MIC, VCCI

2.2.7 LCD Monitor #2

Manufacturer : BENQ Model Number : FP241W

Serial Number: ET61700278CL0

Data Cable : Shielded, Detachable, 1.80m, with two cores

Certificate : CCC, FCC DoC, CE/EMC, VCCI,

BSMI ID: R43002

2.2.8 LCD Monitor #3

Manufacturer : Hisense

Model Number: LEDN24K15PAM

Data Cable : Shielded, Detachable, 1.80m, with two cores

Certificate : FCC ID, CE/EMC

2.3 Description of Test Facility

Site Description : Sept. 17, 1998 file on (No.3 3m Chamber) : July 26, 2009 Renewed

Federal Communications Commission

FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, USA

Name of Firm : Audix Technology (Shanghai) Co., Ltd.

Site Location : 3F 34Bldg 680 Guiping Rd,

Caohejing Hi-Tech Park, Shanghai 200233, China

NVLAP Lab Code : 200371-0

2.4 Measurement Uncertainty

Conducted Emission Expanded Uncertainty: U = 1.26 dBRadiated Emission Expanded Uncertainty : U = 3.02 dB

3 CONDUCTED EMISSION TEST

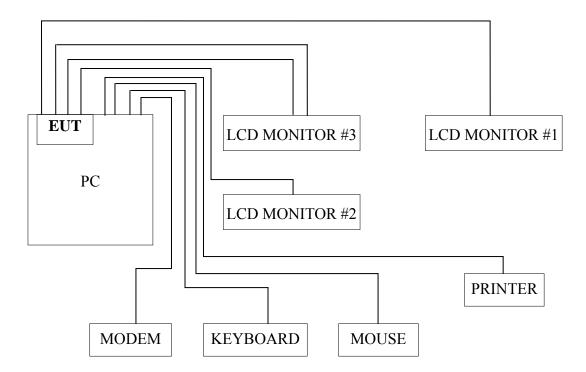
3.1 Test Equipment

The following test equipments are used during the conducted emission test in a shielded room:

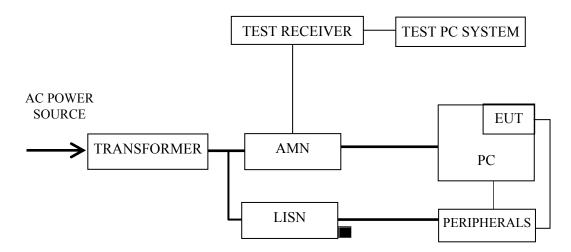
Item	Туре	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	100841	Oct 15, 2009	Oct 15, 2010
2.	Artificial Mains Network (AMN)	R&S	ESH2-Z5	843890/011	Apr 02, 2010	Apr 02, 2011
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Apr 02, 2010	Apr 02, 2011
4.	50Ω Coaxial Switch	Anritsu	MP59B	6200426389	Sep 19, 2010	Mar 19, 2011
5.	50Ω Terminator	Anritsu	BNC	001	Apr 02, 2010	Apr 02, 2011
6.	Software	Audix	E3	SET00200 9804M592		

3.2 Block Diagram of Test Setup

3.2.1 EUT & Peripherals



3.2.2 Conducted Disturbance Test Setup



: Signal Line: Power Line

: 50 ohm Terminator

3.3 Conducted Emission Limit [FCC Part 15 Subpart B 15.107(a)]

Frequency Range	Limits dB (μV)				
(MHz)	Quasi-peak	Average			
0.15 ~ 0.5	66~56	56~46			
0.5 ~ 5	56	46			
5 ~ 30	60	50			

NOTE 1 – The lower limit shall apply at the transition frequencies.

NOTE 2 – The limit decreases linearly with the logarithm of the frequency in the range $0.15~\text{MHz}{\sim}0.50~\text{MHz}$

3.4 Test Configuration

The EUT (listed in Sec.2.1) and the peripherals (listed in Sec 2.2) were installed as shown on Sec.3.2 to meet FCC requirement and operating in a manner that tends to maximize its emission level in a normal application.

3.5 Operating Condition of EUT

- 3.5.1 Setup the EUT and peripherals as shown in Sec. 3.2.
- 3.5.2 Turn on the power of all equipments and the EUT.
- 3.5.3 Set the contrast & brightness of monitors to maximum.
- 3.5.4 PC system ran the self-test program "EMC Test" by windows XP and sent "H" characters to monitors through EUT, the monitors' screen displayed and filled with "H" pattern by its resolution. (Via HDMI output).
- 3.5.5 Repeat above procedure from 3.5.3 to 3.5.4 for difference test mode.
- 3.5.6 The other peripheral devices were driven and operated during the test.
- 3.5.7 The test modes are as follows:

Test Mode
HDMI 640*480P
HDMI 1280*1024P
HDMI 1680*1050P
HDMI 1920*1080P

3.6 Test Procedures

The PC was connected to the power mains through an Artificial Mains Network (AMN). The EUT was installed in PC. The other peripheral devices power cord was connected to the power mains through a line impedance stabilization network (L.I.S.N). This provided a 50 ohm coupling impedance for the measuring equipment.

Both sides of AC line (Line & Neutral) were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed or manipulated according to ANSI C63.4:2003 during conducted emission test.

The bandwidth of R&S Test Receiver ESCI was set at 9 kHz.

The frequency range from 150 kHz to 30 MHz was checked.

The test modes were done on conducted disturbance test and all the test results are listed in Sec. 3.7.

3.7 Test Results

< PASS >

The frequency and amplitude of the highest conducted emission relative to the limit is reported. All emissions not reported below are too low against the prescribed limits.

Test Mode	Data Page
HDMI 640*480P	P12
HDMI 1280*1024P	P13
HDMI 1680*1050P	P14
HDMI 1920*1080P	P15

NOTE 1 - Factor = Cable Loss + AMN Factor.

NOTE 2 – Emission Level = Meter Reading + Factor.

NOTE 3 – "QP" means "Quasi-Peak" values, "AV" means "Average" values.

NOTE 4 – The worst case is for HDMI 1280*1024P test mode. The worst emission is detected at 0.621 MHz (Average Value) with corrected signal level of 33.79 dB (μ V) (limit is 46.00 dB (μ V)), when the Line of the PC is connected to AMN.

Model No. : FI5400E-2G8H1GF(8-HDMI) Humidity : 48%RH

Serial No. : 20010071600006 Date of Test : Oct 14, 2010

Test Mode : <u>HDMI 640*480P</u>

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark	
	0.197	47.79	0.38	48.17	63.76	15.59		
	0.360	44.63	0.46	45.09	58.74	13.65		
	0.621	42.96	0.52	43.48	56.00	12.52	QP	
	0.984	41.28	0.54	41.82	56.00	14.18	Qr	
	17.018	38.71	1.41	40.12	60.00	19.88		
Line	19.532	40.77	1.58	42.35	60.00	17.65		
Line	0.197	37.25	0.38	37.63	53.76	16.13		
	0.360	32.15	0.46	32.61	48.74	16.13		
	0.621	32.15	0.52	32.67	46.00	13.33	AV	
	0.984	31.24	0.54	31.78	46.00	14.22		
	17.018	28.15	1.41	29.56	50.00	20.44		
	19.532	31.25	1.58	32.83	50.00	17.17		
	0.164	50.01	0.32	50.33	65.25	14.92		
	0.360	44.50	0.42	44.92	58.74	13.82		
	0.621	42.83	0.49	43.32	56.00	12.68	QP	
	0.984	41.08	0.51	41.59	56.00	14.41	Qr	
	17.018	39.45	1.59	41.04	60.00	18.96		
Neutral	19.532	41.23	1.74	42.97	60.00	17.03		
Neutrai	0.164	40.21	0.32	40.53	55.25	14.72		
	0.360	32.15	0.42	32.57	48.74	16.17		
	0.621	32.14	0.49	32.63	46.00	13.37	AV	
	0.984	31.24	0.51	31.75	46.00	14.25		
	17.018	28.65	1.59	30.24	50.00	19.76		
	19.532	31.24	1.74	32.98	50.00	17.02		

Model No. : FI5400E-2G8H1GF(8-HDMI) Humidity : 48%RH

Serial No. : 20010071600006 Date of Test : Oct 14, 2010

Test Mode : HDMI 1280*1024P

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark		
	0.164	47.86	0.38	48.24	65.25	17.01			
	0.360	44.86	0.46	45.32	58.74	13.42			
	0.621	43.02	0.52	43.54	56.00	12.46	OD		
	0.984	41.38	0.54	41.92	56.00	14.08	QP		
	17.018	39.10	1.41	40.51	60.00	19.49			
Lina	19.532	41.05	1.58	42.63	60.00	17.37			
Line	0.164	32.41	0.38	32.79	55.25	22.46			
	0.360	32.16	0.46	32.62	48.74	16.12			
	0.621	33.27	0.52	33.79	46.00	12.21	AV		
	0.984	30.24	0.54	30.78	46.00	15.22			
	17.018	28.15	1.41	29.56	50.00	20.44			
	19.532	30.26	1.58	31.84	50.00	18.16			
	0.164	50.04	0.32	50.36	65.25	14.89			
	0.360	44.64	0.42	45.06	58.74	13.68			
	0.621	43.00	0.49	43.49	56.00	12.51	OD		
	0.984	41.34	0.51	41.85	56.00	14.15	QP		
	17.018	39.50	1.59	41.09	60.00	18.91			
Neutral	19.532	41.22	1.74	42.96	60.00	17.04			
Neutrai	0.164	40.20	0.32	40.52	55.25	14.73			
	0.360	32.15	0.42	32.57	48.74	16.17			
	0.621	30.24	0.49	30.73	46.00	15.27	AV		
	0.984	31.24	0.51	31.75	46.00	14.25			
	17.018	28.45	1.59	30.04	50.00	19.96			
	19.532	31.24	1.74	32.98	50.00	17.02			

Model No. : FI5400E-2G8H1GF(8-HDMI) Humidity : 48%RH

Serial No. : 20010071600006 Date of Test : Oct 14, 2010

Test Mode : HDMI 1680*1050P

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark		
	0.164	47.80	0.38	48.18	65.25	17.07			
	0.360	44.71	0.46	45.17	58.74	13.57			
	0.621	42.98	0.52	43.50	56.00	12.50	OD		
	0.984	41.43	0.54	41.97	56.00	14.03	QP		
	17.018	39.38	1.41	40.79	60.00	19.21			
Line	19.532	40.92	1.58	42.50	60.00	17.50			
Line	0.164	37.45	0.38	37.83	55.25	17.42			
	0.360	34.26	0.46	34.72	48.74	14.02			
	0.621	32.54	0.52	33.06	46.00	12.94	AV		
	0.984	30.26	0.54	30.80	46.00	15.20			
	17.018	28.54	1.41	29.95	50.00	20.05			
	19.532	31.28	1.58	32.86	50.00	17.14			
	0.164	50.18	0.32	50.50	65.25	14.75			
	0.360	44.50	0.42	44.92	58.74	13.82			
	0.621	43.19	0.49	43.68	56.00	12.32	OD		
	0.890	41.37	0.51	41.88	56.00	14.12	QP		
	17.018	39.40	1.59	40.99	60.00	19.01			
Neutral	19.532	41.19	1.74	42.93	60.00	17.07			
Neutrai	0.164	40.32	0.32	40.64	55.25	14.61			
	0.360	32.15	0.42	32.57	48.74	16.17			
	0.621	33.27	0.49	33.76	46.00	12.24	AV		
	0.890	30.26	0.51	30.77	46.00	15.23			
	17.018	28.14	1.59	29.73	50.00	20.27			
	19.532	31.27	1.74	33.01	50.00	16.99			

Model No. : FI5400E-2G8H1GF(8-HDMI) Humidity : 48%RH

Serial No. : 20010071600006 Date of Test : Oct 14, 2010

Test Mode : HDMI 1920*1080P

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark
	0.164	48.03	0.38	48.41	65.25	16.84	
	0.360	44.61	0.46	45.07	58.74	13.67	
	0.621	43.21	0.52	43.73	56.00	12.27	OD
	0.984	41.57	0.54	42.11	56.00	13.89	QP
	17.018	38.65	1.41	40.06	60.00	19.94	
Line	19.532	40.60	1.58	42.18	60.00	17.82	
Line	0.164	38.26	0.38	38.64	55.25	16.61	
	0.360	34.26	0.46	34.72	48.74	14.02	
	0.621	33.24	0.52	33.76	46.00	12.24	AV
	0.984	31.27	0.54	31.81	46.00	14.19	
	17.018	27.54	1.41	28.95	50.00	21.05	
	19.532	30.28	1.58	31.86	50.00	18.14	
	0.164	50.48	0.32	50.80	65.25	14.45	
	0.360	44.31	0.42	44.73	58.74	14.01	
	0.621	42.82	0.49	43.31	56.00	12.69	ΩD
	0.822	41.45	0.50	41.95	56.00	14.05	QP
	17.018	38.59	1.59	40.18	60.00	19.82	
Neutral	19.532	40.94	1.74	42.68	60.00	17.32	
Neutrai	0.164	40.23	0.32	40.55	55.25	14.70	
	0.360	32.15	0.42	32.57	48.74	16.17	
	0.621	31.27	0.49	31.76	46.00	14.24	AV
	0.822	30.26	0.50	30.76	46.00	15.24	
	17.018	28.54	1.59	30.13	50.00	19.87	
	19.532	30.26	1.74	32.00	50.00	18.00	

4 RADIATED EMISSION TEST

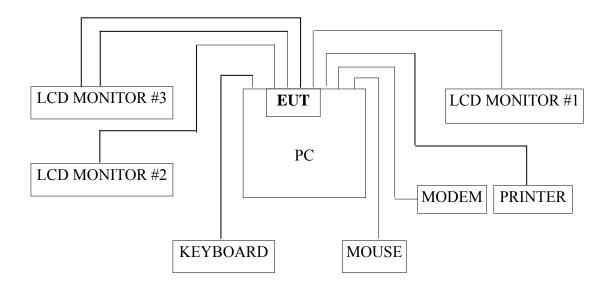
4.1 Test Equipment

The following test equipments are used during the radiated emission test in a semi-anechoic chamber:

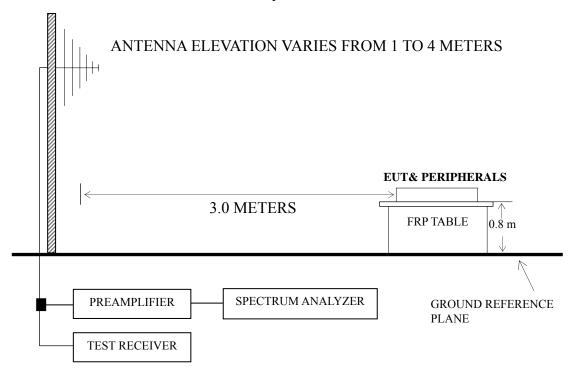
Item	Туре	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESVS10	844594/001	Mar 07, 2010	Mar 07, 2011
2.	Preamplifier	Agilent	8447D	2944A10548	Sep 19, 2010	Mar 19, 2011
3.	Preamplifier	HP	8449B	3008A00864	May 19, 2010	May 19, 2011
4.	Bi-log Antenna	TESEQ	CBL6112D	23192	Dec 01, 2009	Dec 01, 2010
5.	Horn Antenna	EMCO	3115	9607-4878	May 13, 2010	May 13, 2011
6.	Spectrum	Agilent	E7405A	MY45106600	May 19, 2010	May 19, 2011
7.	Software	Audix	E3	SET00200 9912M295-2		

4.2 Block Diagram of Test Setup

4.2.1 EUT and Peripherals



4.2.2 Radiated emission test setup



: 50 ohm Coaxial Switch

4.3 Radiated Emission Limit [FCC Part 15 Subpart B 15.109(a)]

Frequency	Distance	Field strength limits				
(MHz)	(m)	(µV/m)	dB (μV/m)			
30 ~ 88	3	100	40.0			
88 ~ 216	3	150	43.5			
216 ~ 960	3	200	46.0			
Above 960	3	500	54.0			

- NOTE 1 Emission Level dB (μ V/m) = 20 log Emission Level (μ V/m)
- NOTE 2 The tighter limit applies at the band edges.
- NOTE 3 Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- NOTE 4 The limits shown are based on Quasi-peak value detector below or equal to 1GHz and Average value detector above 1GHz.
- NOTE 5 Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT

4.4 Test Configuration

The configuration of the EUT and peripherals are same as those used in conducted emission test.

Please refer to Sec.3.4.

4.5 Operating Condition of EUT

Same as conducted emission test which is listed in Sec.3.5, except for the test setup replaced by Sec.4.2.

4.6 Test Procedures

The EUT and peripherals were placed on a FRP turntable that is 0.8 meter above ground. The FRP turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. Broadband antenna (Calibrated Bilog Antenna or Horn Antenna) was used as receiving antenna. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.4:2003 requirements during radiated emission test.

The bandwidth of Test Receiver R&S ESVS10 was set at 120 kHz below 1GHz and The Spectrum Agilent E7405A was set at 1MHz above 1GHz.

The frequency range from 30 MHz to 1 GHz was checked for all test modes.

The frequency range from 1 GHz to 5 GHz was checked for HDMI 1280*1024P, HDMI 1680*1050P and HDMI 1920*1080P modes.

The test modes were done on radiated disturbance test and all the test results are listed in Sec.4.7.

4.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

Test Mode	Data Page
HDMI 640*480P	P20
HDMI 1280*1024P	P21-P22
HDMI 1680*1050P	P23-P24
HDMI 1920*1080P	P25-P26

- NOTE 1 Emission Level = Antenna Factor + Cable Loss + Meter Reading.(< 1GHz)
- NOTE 2 Emission Level = Antenna Factor + Cable Loss Preamp Factor + Meter Reading. (> 1GHz)
- NOTE 3 The emission levels that are 20dB below the official limit are not reported.
- NOTE $4 0^{\circ}$ was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.
- NOTE 5 –All readings are Quasi-Peak values below or equal to 1GHz, Peak and Average values above 1GHz.
- NOTE 6 The worst case is for HDMI 1280*1024P test mode. The worst emission at horizontal polarization was detected at 198.780 MHz with corrected signal level of 39.63 dB (μ V/m) (limit is 43.50 dB (μ V/m)), when the antenna was 1.00 m height and the turntable was at 260°. The worst emission at vertical polarization was detected at 58.130 MHz with corrected signal level of 33.59 dB (μ V/m) (limit is 40.00 dB (μ V/m)), when the antenna was 1.00 m height and the turntable was at 90°.

Model No. : FI5400E-2G8H1GF(8-HDMI) Humidity : 60%RH

Serial No. : 20010071600006 Date of Test : Oct 14, 2010

Test Mode : HDMI 640*480P

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)
	58.130	19.59	6.96	0.83	27.38	40.00	12.62
	104.690	15.29	11.88	1.06	28.23	43.50	15.27
Horizontal	189.080	26.40	10.24	1.41	38.05	43.50	5.45
Пописний	216.240	26.80	11.43	1.50	39.73	46.00	6.27
	300.630	21.91	13.93	1.77	37.61	46.00	8.39
	335.550	20.41	14.90	1.88	37.19	46.00	8.81
	56.190	20.39	7.46	0.82	28.67	40.00	11.33
	94.020	14.24	10.27	1.02	25.53	43.50	17.97
Vartical	156.100	19.84	10.79	1.27	31.90	43.50	11.60
Vertical	191.990	23.09	10.37	1.42	34.88	43.50	8.62
	239.520	19.90	12.52	1.57	33.99	46.00	12.01
	300.630	18.07	13.93	1.77	33.77	46.00	12.23

Model No. : FI5400E-2G8H1GF(8-HDMI) Humidity : 60%RH

Serial No. : 20010071600006 Date of Test : Oct 14, 2010

Test Mode : _ HDMI 1280*1024P

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)	Remark
	59.100	26.50	6.80	0.83		34.13	40.00	5.87	
	189.080	25.07	10.24	1.41		36.72	43.50	6.78	
	198.780	27.55	10.64	1.44		39.63	43.50	3.87	OD
	216.240	23.91	11.43	1.50		36.84	46.00	9.16	QP
	239.520	21.10	12.52	1.57		35.19	46.00	10.81	
	300.630	19.10	13.93	1.77		34.80	46.00	11.20	
	1075.000	54.82	25.21	4.50	37.26	47.27	74.00	26.73	DIZ
	1365.000	46.94	26.59	4.54	36.62	41.45	74.00	32.55	
Horizontal	1760.000	46.87	27.23	4.58	35.86	42.82	74.00	31.18	
Попідопіаї	2315.000	40.92	28.88	5.27	35.51	39.56	74.00	34.44	PK
	2970.000	43.62	31.80	5.97	35.30	46.09	74.00	27.91	
	3755.000	44.34	32.76	7.23	35.13	49.20	74.00	24.80	
	1075.000	41.82	25.21	4.50	37.26	34.27	54.00	19.73	
	1365.000	27.94	26.59	4.54	36.62	22.45	54.00	31.55	
	1760.000	32.87	27.23	4.58	35.86	28.82	54.00	25.18	AV
	2315.000	28.92	28.88	5.27	35.51	27.56	54.00	26.44	
	2970.000	29.62	31.80	5.97	35.30	32.09	54.00	21.91	
	3755.000	28.34	32.76	7.23	35.13	33.20	54.00	20.80	

Model No. : FI5400E-2G8H1GF(8-HDMI) Humidity : 60%RH

Serial No. : 20010071600006 Date of Test : Oct 14, 2010

Test Mode : HDMI 1280*1024P

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)	Remark
	58.130	25.80	6.96	0.83		33.59	40.00	6.41	
	124.090	17.84	12.81	1.15		31.80	43.50	11.70	
	189.080	20.11	10.24	1.41		31.76	43.50	11.74	OD
	239.520	15.68	12.52	1.57	-	29.77	46.00	16.23	QP
	299.660	14.27	13.90	1.77	-	29.94	46.00	16.06	
	852.560	11.08	21.24	2.97	-	35.29	46.00	10.71	
	1315.000	52.23	26.39	4.53	36.75	46.40	74.00	27.60	PK
	2375.000	45.49	29.14	5.31	35.50	44.44	74.00	29.56	
Vertical	3160.000	44.17	31.97	6.30	35.25	47.19	74.00	26.81	
Vertical	4250.000	41.12	33.56	7.70	35.07	47.31	74.00	26.69	ГK
	4580.000	41.94	34.26	7.93	35.04	49.09	74.00	24.91	
	5260.000	38.42	36.60	8.40	34.96	48.46	74.00	25.54	
	1315.000	44.23	26.39	4.53	36.75	38.40	54.00	15.60	
	2375.000	27.49	29.14	5.31	35.50	26.44	54.00	27.56	
	3160.000	25.17	31.97	6.30	35.25	28.19	54.00	25.81	AV
	4250.000	25.12	33.56	7.70	35.07	31.31	54.00	22.69	
	4580.000	26.94	34.26	7.93	35.04	34.09	54.00	19.91	
	5260.000	21.42	36.60	8.40	34.96	31.46	54.00	22.54	

Model No. : FI5400E-2G8H1GF(8-HDMI) Humidity : 60%RH

Serial No. : ______ 20010071600006 _____ Date of Test : ____ Oct 14, 2010

Test Mode : HDMI 1680*1050P

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)	Remark
	104.690	17.14	11.88	1.06		30.08	43.50	13.42	
	191.990	26.14	10.37	1.42		37.93	43.50	5.57	
	205.570	26.06	10.93	1.47		38.46	43.50	5.04	OD
	224.970	25.73	11.89	1.53		39.15	46.00	6.85	QP
	300.630	22.21	13.93	1.77		37.91	46.00	8.09	
	335.550	19.34	14.90	1.88		36.12	46.00	9.88	
	1180.000	50.79	25.71	4.51	37.05	43.96	74.00	30.04	
	1365.000	51.51	26.59	4.54	36.62	46.02	74.00	27.98	DIZ
Harizantal	2440.000	45.15	29.40	5.39	35.48	44.46	74.00	29.54	
Horizontal	3660.000	41.69	32.50	7.14	35.15	46.18	74.00	27.82	PK
	4770.000	39.09	35.50	8.01	35.02	47.58	74.00	26.42	
	5810.000	38.57	36.44	8.90	34.91	49.00	74.00	25.00	
	1180.000	44.79	25.71	4.51	37.05	37.96	54.00	16.04	
	1365.000	29.51	26.59	4.54	36.62	24.02	54.00	29.98	
	2440.000	38.15	29.40	5.39	35.48	37.46	54.00	16.54	AV
	3660.000	29.69	32.50	7.14	35.15	34.18	54.00	19.82	
	4770.000	29.09	35.50	8.01	35.02	37.58	54.00	16.42	
	5810.000	31.57	36.44	8.90	34.91	42.00	54.00	12.00	

Model No. : FI5400E-2G8H1GF(8-HDMI) Humidity : 60%RH

Serial No. : ______ 20010071600006 _____ Date of Test : ____ Oct 14, 2010

Test Mode : HDMI 1680*1050P

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)	Remark
	60.070	27.76	6.60	0.84		35.20	40.00	4.80	
	62.980	28.46	6.57	0.86		35.89	40.00	4.11	
	104.690	24.15	11.88	1.06		37.09	43.50	6.41	OD
	189.080	25.85	10.24	1.41		37.50	43.50	6.00	QP
	239.520	21.13	12.52	1.57		35.22	46.00	10.78	
	414.120	13.91	16.69	2.09		32.69	46.00	13.31	
	1175.000	51.30	25.69	4.51	37.06	44.44	74.00	29.56	DIV
	1370.000	49.95	26.60	4.54	36.61	44.48	74.00	29.52	
Vartical	2145.000	48.82	28.05	5.00	35.56	46.31	74.00	27.69	
Vertical	3405.000	43.08	32.07	6.80	35.19	46.76	74.00	27.24	PK
	4620.000	40.99	34.50	7.93	35.03	48.39	74.00	25.61	
	5580.000	39.97	36.48	8.68	34.93	50.20	74.00	23.80	
	1175.000	44.30	25.69	4.51	37.06	37.44	74.00	36.56	
	1370.000	36.95	26.60	4.54	36.61	31.48	74.00	42.52	
-	2145.000	30.82	28.05	5.00	35.56	28.31	74.00	45.69	AV
	3405.000	29.08	32.07	6.80	35.19	32.76	74.00	41.24	
	4620.000	27.99	34.50	7.93	35.03	35.39	74.00	38.61	
<u></u>	5580.000	28.97	36.48	8.68	34.93	39.20	74.00	34.80	

Model No. : FI5400E-2G8H1GF(8-HDMI) Humidity : 60%RH

Serial No. : ______ 20010071600006 _____ Date of Test : ____ Oct 14, 2010

Test Mode : _ HDMI 1920*1080P

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)	Remark
	56.190	22.99	7.46	0.82		31.27	40.00	8.73	
	189.080	27.29	10.24	1.41		38.94	43.50	4.56	
	216.240	27.05	11.43	1.50		39.98	46.00	6.02	OD
	239.520	24.92	12.52	1.57		39.01	46.00	6.99	QP
	300.630	22.50	13.93	1.77		38.20	46.00	7.80	
	335.550	19.04	14.90	1.88		35.82	46.00	10.18	
	1180.000	49.93	25.71	4.51	37.05	43.10	74.00	30.90	PK
	1595.000	50.87	27.08	4.56	36.11	46.40	74.00	27.60	
Horizontal	2285.000	45.92	28.76	5.22	35.52	44.38	74.00	29.62	
Попідопіаї	2925.000	44.15	31.61	5.93	35.32	46.37	74.00	27.63	rĸ
	3770.000	44.44	32.78	7.23	35.13	49.32	74.00	24.68	
	4585.000	42.64	34.34	7.93	35.04	49.87	74.00	24.13	
	1180.000	39.93	25.71	4.51	37.05	33.10	54.00	20.90	
	1595.000	34.87	27.08	4.56	36.11	30.40	54.00	23.60	
	2285.000	30.92	28.76	5.22	35.52	29.38	54.00	24.62	AV
	2925.000	36.15	31.61	5.93	35.32	38.37	54.00	15.63	
	3770.000	31.44	32.78	7.23	35.13	36.32	54.00	17.68	
	4585.000	28.64	34.34	7.93	35.04	35.87	54.00	18.13	

Model No. : FI5400E-2G8H1GF(8-HDMI) Humidity : 60%RH

Serial No. : 20010071600006 Date of Test : Oct 14, 2010

Test Mode : _ HDMI 1920*1080P

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)	Remark
	30.970	15.28	19.03	0.64		34.95	40.00	5.05	
	55.220	25.43	7.69	0.81		33.93	40.00	6.07	
	62.980	27.12	6.57	0.86		34.55	40.00	5.45	OD
	131.850	22.13	12.42	1.18		35.73	43.50	7.77	QP
	189.080	24.85	10.24	1.41		36.50	43.50	7.00	- -
	245.340	21.20	12.72	1.59		35.51	46.00	10.49	
	1080.000	54.21	25.24	4.50	37.25	46.70	74.00	27.30	DIZ
	1305.000	50.21	26.34	4.53	36.77	44.31	74.00	29.69	
Vertical	1760.000	52.03	27.23	4.58	35.86	47.98	74.00	26.02	
Vertical	2445.000	49.16	29.40	5.39	35.48	48.47	74.00	25.53	PK
	4105.000	42.27	33.41	7.56	35.09	48.15	74.00	25.85	
	5335.000	39.25	36.57	8.47	34.95	49.34	74.00	24.66	
	1080.000	46.21	25.24	4.50	37.25	38.70	54.00	15.30	
	1305.000	43.21	26.34	4.53	36.77	37.31	54.00	16.69	
	1760.000	36.03	27.23	4.58	35.86	31.98	54.00	22.02	AV
	2445.000	35.16	29.40	5.39	35.48	34.47	54.00	19.53	
	4105.000	30.27	33.41	7.56	35.09	36.15	54.00	17.85	
	5335.000	28.25	36.57	8.47	34.95	38.34	54.00	15.66	

5	DEVIA	TION TO	TEST	SPECIFICA	ZIONS
J	1/1/VI/A		1 1 1 1 1		

None.