HYUNDAI CALIBRATION & CERTIFICATION TECH. CO., LTD.

Product Compliance Division, EMC Team
SAN 136-1, AMI-RI , BUBAL-EUP, ICHEON-SI, KYOUNKI-DO, 467-701, KOREA
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CERTIFICATION

Manufacture;
HYUNDAI IMAGEQUEST CO., LTD.

SAN 136-1, AMI-RI , BUBAL-EUP, ICHEON-SI, KYOUNKI-DO, 467-701,KOREA

HYUNDAI IMAGEQUEST FRN : 0005-8664-39

Date of Issue : November 03, 2005

Test Report No.: HCT-F05-1101

Test Site: HYUNDAI CALIBRATION & CERTIFICATION TECHNOLOGIES CO., LTD.
HCT FRN : 0005-8664-21

FCC ID : **PJILT40DW000**

MODEL /TYPE: **Q400/LT40DW000**

Rule Part(s):	**Part 15 & 2**
Equipment Class:	**FCC Class B Peripheral Device (JBP)**
Standard(s):	**FCC Class B: (CISPR 22)**
EUT Type:	**LCD TV MONITOR**
Max. Resolution(s):	**1024 X 768 (@/85Hz)**
Model(s):	**Q400**
Port/Connector(s)	**15-pin D-sub, PC Audio in, Power, DVI, Component1.2, S-video, Video in/out, ANT1.2, Woofer out, Coaxial**
LCD Panel	**SAMSUNG (LTA400W2-L01)**

This equipment has been shown to be in compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2003

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Ki Soo Kim

Report prepared by : Ki-Soo Kim
Manager of EMC Tech. Part

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MEASUREMENT REPORT

1.1 Scope

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

Applicant Name:	**HYUNDAI IMAGEQUEST**
Address:	**SAN 136-1, AMI-RI , BUBAL-EUP, ICHEON-SI, KYOUNKI-DO, 467-701,KOREA**

- **FCC ID : PJILT40DW000**
- Equipment Class: FCC Class B Peripheral Device (JBP)
- EUT Type: LCD TV MONITOR
- Model(s): Q400
- Max. Resolution: 1024 X 768 (@85Hz)Analog , 1024 X 768 (@85Hz)Digital
- Power Cord: Unshielded
- Rule Part(s): FCC Part 15 Subpart B
- Test Procedure(s): ANSI C63.4 (2003)
- Dates of Tests: October 19, 2005 ~October 21, 2005
- Place of Tests: 254-1,MAEKOK-RI,HOBUP-MYUN,ICHON-SI,KYOUNGKI-DO,467-701,KOREA

2.1 INTRODUCTION

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSIC63.4-2003) was used in determining radiated and conducted emissions emanating from **HYUNDAI IMAGEQUEST CO.,LTD. LCD TV Monitor FCC ID: PJILT40DW000**

The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1, MAEKOK-RI,HOBUP-MYUN,ICHON-SI,KYOUNGKI-DO, 467-701,KOREA. The site is constructed in conformance with the requirements of ANSI C63.4and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 23,2003 (Confirmation Number: EA90661)

3.1 PRODUCT INFORMATION

3.2 Equipment Description

Equipment Under Test (EUT) is the **HYUNDAI IMAGEQUEST CO.,Ltd. (Model : Q400) 40-inch LCD TV Monitor**

FCC ID**: : PJILT40DW000**

Maximum Resolution(s): 1024 X 768(@85Hz)

Frequency Range(s): H-Sync: 31KHz – 80KHz
V-Sync: 56Hz – 75 Hz

Power Supply: AC 100-240V 60/ 50Hz

Port(s)/Input Connector(s): S-Video(1), Video(1), Component(2), Antenna(2), DVI-HDCP(1)

Cable(s): Shielded D-Sub (with ferrite on both ends), Audio cable(with ferrite on both ends)

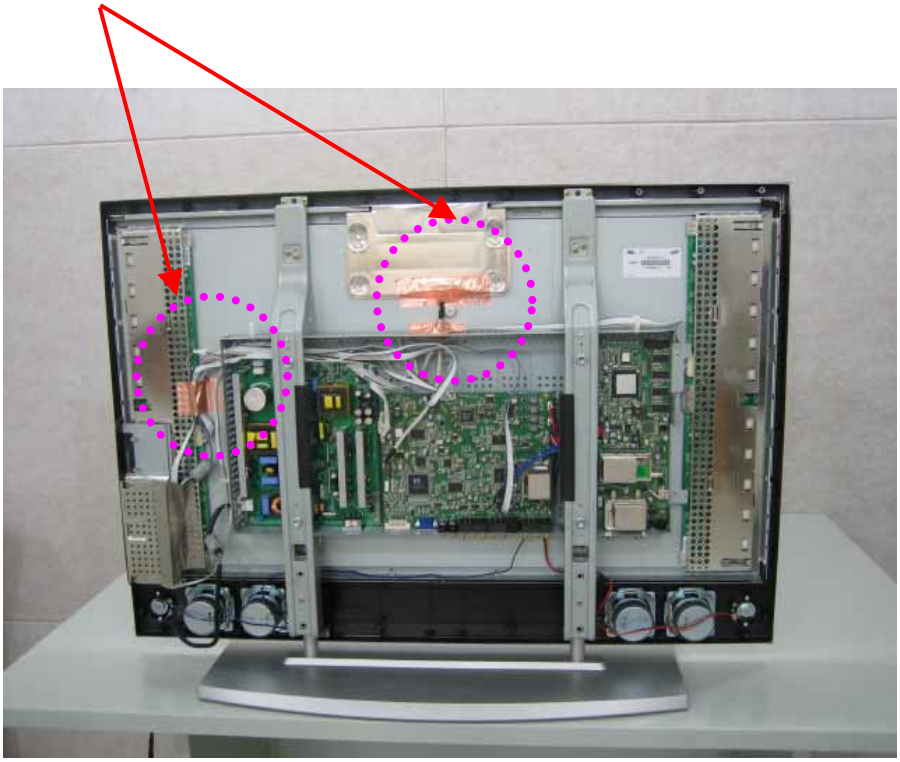
Dimensions (WxHxD): 988x715.5x297mm (WxHxD)

Weight (Net):23Kg unpacked

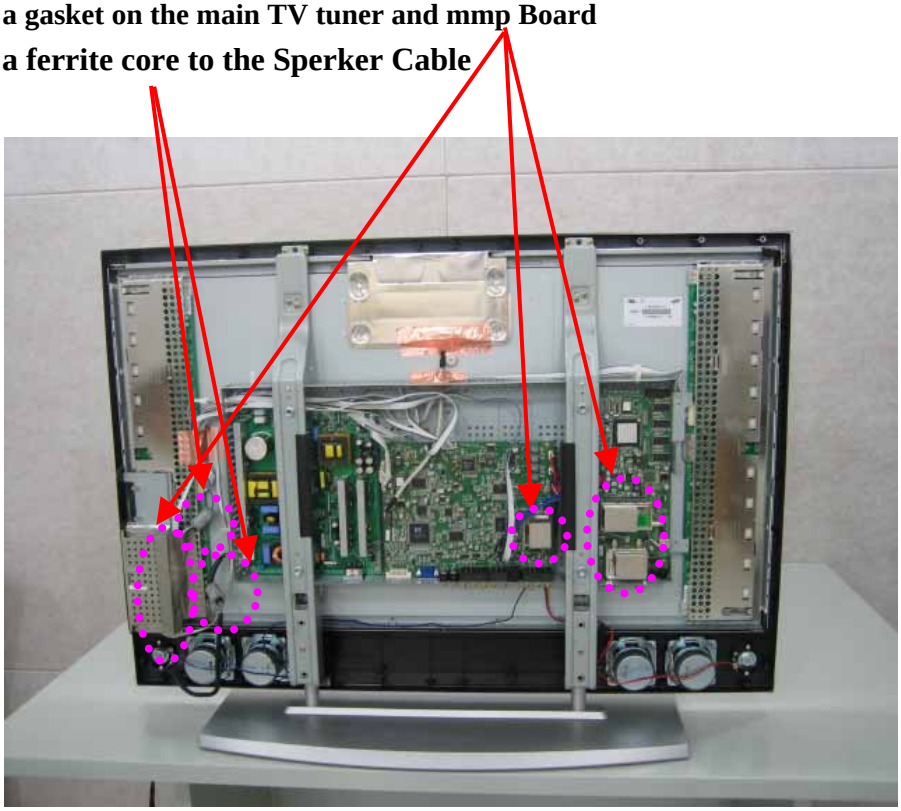
EMI Suppression Devices:

Modifications were made to the device. Please refer to the next page.

1. **Attach aluminum tape on the frame**



2. **Attach a gasket on the main TV tuner and mmp Board**
3. **Apply a ferrite core to the Sperker Cable**



4.1 Description of Tests(Conducted)

4.2 Powerline Conducted RFI (150kHz- 30MHz)

The power line conducted RFI measurements were performed according to CISPR 22.
The EUT was placed on a non-conducting 1.0 by 1.5 meter table which is 0.8 meters in height and 0.40 meters away from the vertical wall of the shielded enclosure. Power to the EUT is provided through a Rohde & Schwarz 50 Ω / 50 uH Line Impedance Stabilization Network (LISN) and the support equipment through a separate Solar 50 Ω / 50 uH Line- Conducted Test Facility LISN. Sufficient time for the EUT, support equipment, and test equipment were allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME. The spectrum was scanned from 150kHz to 30 MHz. Each maximum EME was remeasured using an EMI receiver. The detector function of the receiver was set to CISPR quasi- peak and average mode with the bandwidth set to 9 kHz. Each emission was maximized consistent with the typical applications by varying the configuration of the test sample. Interface cables were connected to the available interface ports of the test unit. The effect of varying the position of cables was investigated to find the configuration that produces maximum Diagram emission. Excess cable lengths were bundled at the center with 30- 40cm. in length. The worst-case configuration is noted in the test report and the photographs are attached. Each EME reported was calibrated using the Rohde & Schwarz SMX signal generator and are listed on Table 1. RFI Conducted FCC Class B

RFI CONDUCTED	**CISPR 22 CLASS B Limits dB(uV/m)**	
Freq. Range	**CISPR 22 Quasi-Peak**	**CISPR 22 Average**
150kHz - 0.5MHz	**66-56****	**56-46****
0.5MHz - 5MHz	**56**	**46**
5MHz - 30MHz	**60**	**50**
****Limits decreases linearly with the logarithm of frequency**		

Table 1. RFI Conducted Limits

4.3 Description of Tests(Radiated)

Radiated Emissions

Preliminary measurements were made indoors at 1 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The spectrum was scanned from 30 to 300 MHz using biconical antenna, 300 to 1000 MHz using log- periodic antenna, and above 1 GHz using linearly polarized horn antennas. Final measurements were made outdoors at 10-meter test range using Dipole antennas and EMI receiver. For frequencies above 1 GHz, horn antennas were used. Sufficient time for the EUT, support equipment, and test equipment were allowed in order for them to warm up to their normal operating condition. The EMI receiver detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 120 kHz. The EUT, support equipment, and interconnecting cables were arranged to the configuration that produces the maximum EME emission found during preliminary scan. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Horizontal and vertical antenna polarizations were checked. Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/ or support equipment, and powering the monitor the computer aux AC outlet, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission.

ITE Radiated Limits			
Frequency (MHz)	**FCC Limit @ 3m. Quasi-Peak dB[μV/m]**	**FCC Limit @ 10m.* Quasi – Peak dB [μV/m]**	**CISPR Limit @ 10m. Quasi-Peak dB [μV/m]**
30-88	**40.0**	**29.5**	**30.0**
88-216	**43.5**	**33.0**	**30.0**
216-230	**46.0**	**35.6**	**30.0**
230-960	**46.0**	**35.6**	**37.0**
960-1000	**54.0**	**43.5**	**37.0**
> 1000	**54.0**	**43.5**	**No Specified Limit**
*** Limit extrapolated 20 dB/decade**			

Table 2. Radiated Class B limits @ 10-meters

5.1 Support Equipment Used

DEVICE TYPE	MANUFACTURER	MODEL NUMBER	FCC ID / DoC	CONNECTED TO
LCD TV MONITOR (EUT)	HYUNDAI IMAGEQUEST CO., LTD.	Q400	PJILT40DW000	P.C
Serial Mouse	Logitech	M-M28	DoC	P.C
Printer	H/P	C4569A	DoC	P.C
P.C	DELL	OPTIPLEXGX620	DoC	EUT
Mouse	DELL	MO56UO	DoC	P.C
Key Board	DELL	SK-8115	DoC	P.C
DVD	SAMSUNG	DVD-HD594	DoC	EUT
MPEG-Recoder	MTX 100	J310478	Tektronix	ATSC
All Channel Converter	4200C-006	EJ96182	EIDEN	ATSC
8VSB Modulator	3313b-002	EJ96656	EIDEN	ATSC
TV PATTEN GENERATOR	GV-698	GV698AEU119	PROMAX	NTSC/PAL

5.2 Cable Description

		Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (M)
LCD TV Monitor (EUT)	Power	N	N/A	1.8(P)
	DVI	N/A	Y	1.8(D)
	D-Sub	N/A	Y	1.8(D)
	Audio	N/A	Y	1.8(D)
	Component 1.2	N/A	Y	1.8(D)
	S-Video	N/A	Y	1.8(D)
	Video in	N/A	Y	1.8(D)
	Video out	N/A	Y	1.8(D)
	ANT 1.2	N/A	Y	3.0(D)
	Woofer out	N/A	Y	1.8(D)
	Coaxial	N/A	Y	1.8(D)
PC		N	N/A	1.8(P)
Key Board		N/A	Y	1.8(D)
Mouse		N/A	Y	1.8(D)
Serial Mouse		N/A	Y	1.8(D)
Printer		N	Y	1.8(D)
DVD		N	N/A	1.8(D)

The marked "(D)" means the Data Cable and "(P)" means the Power Cable.

5.3 Noise Suppression Parts on Cable. (I/O CABLE)

		Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
LCD TV Monitor (EUT)	DVI	Y	BOTH END	Y	BOTH END
	D-Sub	Y	BOTH END	Y	BOTH END
	Audio	Y	PC END	Y	BOTH END
	Component 1.2	N	N/A	Y	BOTH END
	S-Video	Y	BOTH END	Y	BOTH END
	Video in	N	N/A	Y	BOTH END
	Video out	N	N/A	Y	BOTH END
	ANT 1.2	N	N/A	Y	BOTH END
	Woofet out	N	N/A	Y	BOTH END
	Coaxial	N	N/A	Y	BOTH END
PC		N/A	N/A	N/A	N/A
Key Board		N	N/A	Y	PC END
Mouse		N	N/A	Y	PC END
Serial Mouse		N	N/A	Y	PC END
Printer		N	N/A	Y	BOTH END
DVD		N/A	N/A	N/A	N/A

6.1 LINE-CONDUCTED TEST DATA

- Analog -

HCT

EMC TEST LAB

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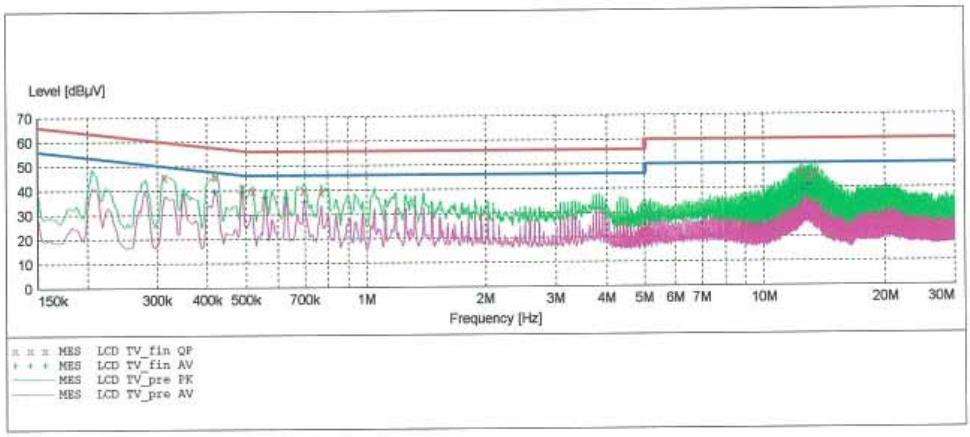
EUT:                  Q400
Manufacturer:         HYUNDAI IMAGEQUEST
Operating Condition:  1024 X 768 85Hz
Test Site:            SHIELD ROOM
Operator:             GS,KIM
Test Specification:   CISPR 22 CLASS B
Comment:              H
```

SCAN TABLE: "CISPR 22 Voltage"

Short Description: CISPR 22 Voltage

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak Average	10.0 ms	9 kHz	None
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None
5.0 MHz	30.0 MHz	5.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None



MEASUREMENT RESULT: "LCD TV_fin QP"

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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.312600	45.50	10.1	60	14.4	---	---
0.420100	45.80	10.1	57	11.6	---	---
0.490100	40.90	10.1	56	15.3	---	---
0.520000	39.80	10.1	56	16.2	---	---
0.695000	39.80	10.2	56	16.2	---	---
0.770000	39.10	10.2	56	16.9	---	---
12.430000	46.60	10.4	60	13.4	---	---
13.115000	44.70	10.5	60	15.3	---	---
13.455000	46.10	10.5	60	13.9	---	---

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MEASUREMENT RESULT: "LCD TV_fin AV"

10/19/2005 2:16PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.350100	38.30	10.1	49	10.7	---	---
0.420100	39.40	10.1	47	8.0	---	---
0.490100	39.30	10.1	46	6.9	---	---
0.560000	37.10	10.1	46	8.9	---	---
0.630000	36.60	10.2	46	9.4	---	---
0.700000	35.30	10.2	46	10.7	---	---
12.570000	38.80	10.4	50	11.2	---	---
12.910000	40.80	10.5	50	9.2	---	---
13.115000	41.00	10.5	50	9.0	---	---

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HCT

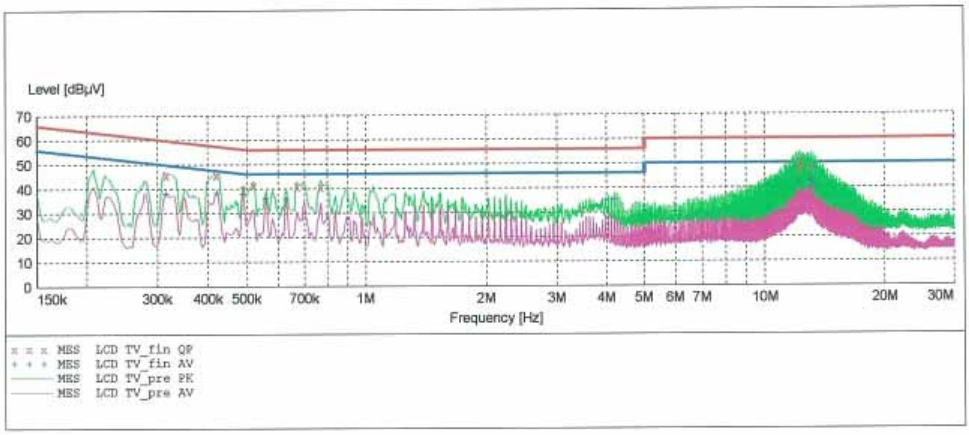
EMC TEST LAB

EUT: Q400
Manufacturer: HYUNDAI IMAGEQUEST
Operating Condition: 1024 X 768 85Hz
Test Site: SHIELD ROOM
Operator: GS,KIM
Test Specification: CISPR 22 CLASS B
Comment: N

SCAN TABLE: "CISPR 22 Voltage"

Short Description: CISPR 22 Voltage

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak Average	10.0 ms	9 kHz	None
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None
5.0 MHz	30.0 MHz	5.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None



MEASUREMENT RESULT: "LCD TV_fin QP"

10/19/2005 2:12PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.315100	45.70	10.1	60	14.2	---	---
0.420100	45.80	10.1	57	11.6	---	---
0.490100	39.80	10.1	56	16.4	---	---
0.520000	41.30	10.1	56	14.7	---	---
0.670000	41.00	10.2	56	15.0	---	---
0.770000	40.60	10.2	56	15.4	---	---
12.175000	47.80	10.4	60	12.2	---	---
12.240000	50.50	10.4	60	9.5	---	---
12.995000	48.20	10.5	60	11.8	---	---

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MEASUREMENT RESULT: "LCD TV_fin AV"

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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.315100	38.20	10.1	50	11.6	---	---
0.422600	38.30	10.1	47	9.1	---	---
0.490100	37.90	10.1	46	8.3	---	---
0.560000	35.80	10.1	46	10.2	---	---
0.630000	35.70	10.2	46	10.3	---	---
4.190000	35.10	10.3	46	10.9	---	---
12.175000	41.80	10.4	50	8.2	---	---
12.995000	42.60	10.5	50	7.4	---	---
13.200000	41.80	10.5	50	8.2	---	---

- Digital -

HCT

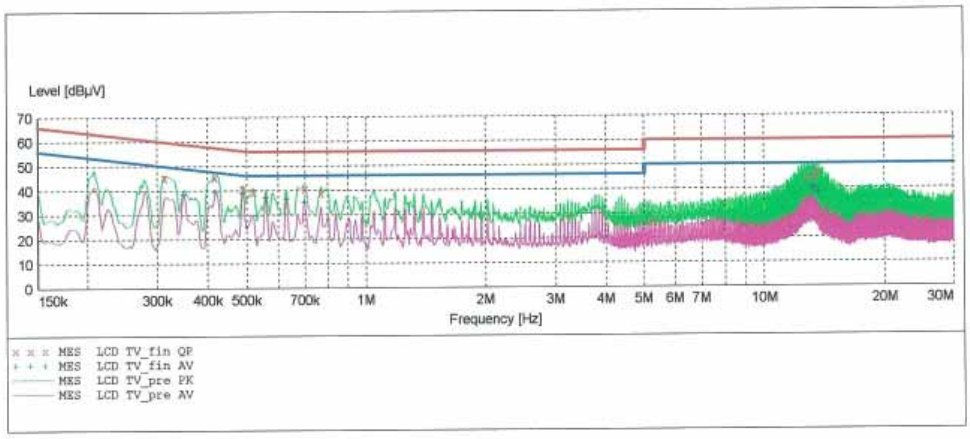
EMC TEST LAB

EUT: Q400
Manufacturer: HYUNDAI IMAGEQUEST
Operating Condition: 1024 X 768 85Hz (D)
Test Site: SHIELD ROOM
Operator: GS,KIM
Test Specification: CISPR 22 CLASS B
Comment: H

SCAN TABLE: "CISPR 22 Voltage"

Short Description: CISPR 22 Voltage

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak Average	10.0 ms	9 kHz	None
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None
5.0 MHz	30.0 MHz	5.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None



MEASUREMENT RESULT: "LCD TV_fin QP"

10/19/2005 2:19PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.312600	45.40	10.1	60	14.5	---	---
0.417600	45.50	10.1	58	12.0	---	---
0.490100	40.70	10.1	56	15.4	---	---
0.520000	39.70	10.1	56	16.3	---	---
0.700000	40.60	10.2	56	15.4	---	---
0.770000	39.00	10.2	56	17.0	---	---
12.830000	44.40	10.5	60	15.6	---	---
13.445000	44.60	10.5	60	15.4	---	---
13.510000	47.00	10.5	60	13.0	---	---

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MEASUREMENT RESULT: "LCD TV_fin AV"

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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.350100	38.30	10.1	49	10.6	---	---
0.420100	39.40	10.1	47	8.1	---	---
0.490100	39.20	10.1	46	6.9	---	---
0.560000	37.10	10.1	46	8.9	---	---
0.630000	36.50	10.2	46	9.5	---	---
0.700000	35.30	10.2	46	10.7	---	---
13.240000	40.10	10.5	50	9.9	---	---
13.445000	39.60	10.5	50	10.4	---	---
13.650000	38.10	10.5	50	11.9	---	---

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HCT

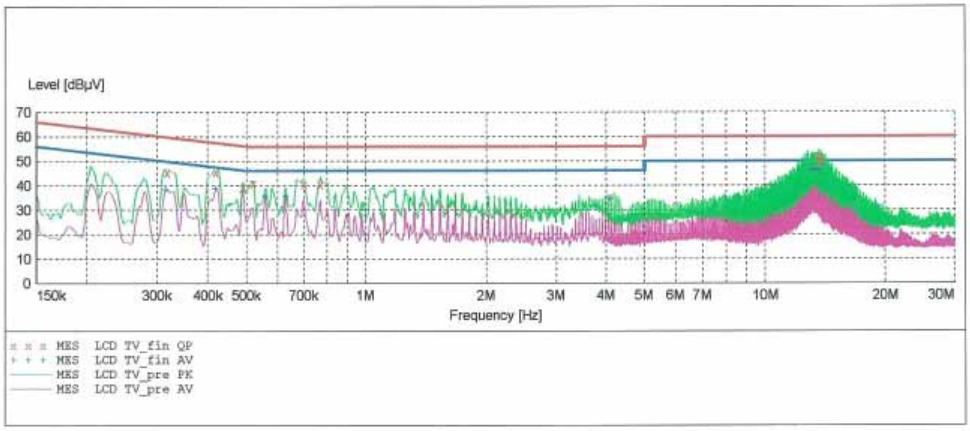
EMC TEST LAB

EUT: Q400
Manufacturer: HYUNDAI IMAGEQUEST
Operating Condition: 1024 X 768 85Hz (D)
Test Site: SHIELD ROOM
Operator: GS,KIM
Test Specification: CISPR 22 CLASS B
Comment: N

SCAN TABLE: "CISPR 22 Voltage"

Short Description: CISPR 22 Voltage

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak Average	10.0 ms	9 kHz	None
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None
5.0 MHz	30.0 MHz	5.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None



MEASUREMENT RESULT: "LCD TV_fin QP"

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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.317600	45.40	10.1	60	14.4	---	---
0.420100	45.50	10.1	57	11.9	---	---
0.490100	39.40	10.1	56	16.8	---	---
0.520000	41.00	10.1	56	15.0	---	---
0.700000	40.60	10.2	56	15.4	---	---
0.770000	40.50	10.2	56	15.5	---	---
13.570000	50.20	10.5	60	9.8	---	---
13.635000	52.30	10.5	60	7.7	---	---
13.775000	50.00	10.5	60	10.0	---	---

MEASUREMENT RESULT: "LCD TV_fin AV"

10/19/2005 2:23PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.315100	38.30	10.1	50	11.5	---	---
0.420100	38.80	10.1	47	8.6	---	---
0.490100	37.60	10.1	46	8.6	---	---
0.560000	35.60	10.1	46	10.4	---	---
0.630000	35.50	10.2	46	10.5	---	---
4.120000	34.60	10.3	46	11.4	---	---
13.025000	45.90	10.5	50	4.1	---	---
13.365000	46.40	10.5	50	3.6	---	---
13.570000	46.10	10.5	50	3.9	---	---

NOTES:

1. All modes of operation were investigated and the worst-case emissions are reported.
2. The CISPR RFI conducted limits are listed on Table 1 (Page 7).
3. Line H = Phase Line N = Neutral Line

** Measurements using CISPR quasi-peak mode.

7.1 RADIATED TEST DATA

-D-SUB-

Frequency MHz	Reading dBuV	Ant. Factor dB/m	Cable Loss Db	ANT POL (H/V)	Total dBuV/m	Limit dBuV/m	Margin dB
42.8	8.2	11.8	1.4	V	21.4	30.0	8.6
76.3	11.7	8.5	1.9	V	22.1	30.0	7.9
140.8	3.4	12.8	2.6	V	18.8	30.0	11.2
178.4	6.0	11.3	3.0	V	20.3	30.0	9.7
212.7	6.3	10.0	3.3	V	19.6	30.0	10.4
223.4	8.0	10.4	3.4	H	21.8	30.0	8.2
304.8	6.0	13.1	4.0	V	23.1	37.0	13.9
344.1	10.6	13.8	4.3	H	28.7	37.0	8.3
368.4	12.7	14.3	4.4	V	31.4	37.0	5.6
436.2	9.4	16.4	4.8	H	30.6	37.0	6.4
472.8	8.2	16.9	5.0	H	30.1	37.0	6.9
503.1	6.3	17.0	5.1	V	28.4	37.0	8.6

-DVI-

Frequency MHz	Reading dBuV	Ant. Factor dB/m	Cable Loss Db	ANT POL (H/V)	Total dBuV/m	Limit dBuV/m	Margin dB
43.4	7.9	11.9	1.4	V	21.2	30.0	8.8
56.1	5.9	11.7	1.7	V	19.3	30.0	10.7
111.4	7.9	10.5	2.4	H	20.8	30.0	9.2
140.2	3.6	12.8	2.6	V	19.0	30.0	11.0
178.4	6.8	11.3	3.0	V	21.1	30.0	8.9
212.7	6.5	10.0	3.3	V	19.8	30.0	10.2
304.8	6.3	13.1	4.0	V	23.4	37.0	13.6
344.1	11.3	13.8	4.3	H	29.4	37.0	7.6
368.4	12.5	14.3	4.4	V	31.2	37.0	5.8
436.2	9.4	16.4	4.8	H	30.6	37.0	6.4
465.1	6.3	16.9	4.9	V	28.1	37.0	8.9
472.8	9.1	16.9	5.0	H	31.0	37.0	6.0

Radiated Measurements at 10-meters.

1024 X 768 (@85Hz)

NOTES:

1. All modes of operation were investigated, and the worst-case emissions are reported.
2. The radiated limits are listed on Table 2 (Page 8).

** AFCL = Antenna Factor (Roberts dipole) and Cable Loss .

*** Measurements using CISPR quasi-peak mode. Above 1GHz, peak detector function mode is used using a resolution bandwidth of 1MHz and a video bandwidth of 1MHz. The peak level complies with the average limit. Peak mode is used with linearly polarized horn antenna and low-loss microwave cable.

8.1 Sample Calculations

$$dB\,\mu V = 20 \log_{10} (mV/m)$$

8.2 Example 1:

@ 13.63 MHz

Class B limit	=	60 dB μV
Reading	=	52.3 dB μV (calibrated level)
Margin	=	52.3 – 60 = - 7.7 dB μV
	=	**7.7 dB below limit**

8.3 Example 2:

@ 368.4 MHz

Class B limit	=	37 dB μV/m
Reading	=	12.7 dB μV/m (calibrated level)
Antenna Factor + Cable Loss	=	18.7 dB
Total	=	31.4 dB μV/m
Margin	=	31.4 - 37.0 = - 5.6
	=	**5.6 dB below limit**

9.1 Test Equipment

Type	Manufacture	Model Number	CAL Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI40	2005.11.16
EMI Test Receiver	Rohde & Schwarz	ESVS30	2006.07.01
EMI Test Receiver	Rohde & Schwarz	ESCI	2006.09.13
LISN	Rohde & Schwarz	ESH2-Z5	2006.04.26
Attenuator	Rohde & Schwarz	ESH3-Z2	2005.11.16
TRILOG Antenna	Schwarzbeck	9160	2006.03.31
Antenna Position Tower	HD	MA240	N/A
Turn Table	EMCO	1050	N/A
Power Analyzer	Voltech	PM 3300	2006.03.22
Reference Network Impedance	Voltech	IEC 555	N/A
AC Power Source	PACIFIC	Magnetic Module	N/A
AC Power Source	PACIFIC	360-AMX	2005.11.25
Controller	HD GmbH	HD 100	N/A
SlideBar	HD GmbH	KMS 560	N/A
PULSE LIMITER	Rohde & Schwarz	ESH3-Z2	2005.11.16

10.1 Test Software Used

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The software, contained on a 3-1/2 inch disc, was inserted into drive A and is auto starting on power-up. Once loaded, the program sequentially exercises each system component in turn. The sequence used is :(1) Display test, (2) RS 232 test (3) Key board test,(4) Printer test,(5) FDD test,(6) HDD test. The complete cycle takes about 20 seconds and is repeated continuously. As the keyboard and mouse are strictly input devices, no data is transmitted to them during test. They are however, continuously scanned for data input activity. The video resolution modes setup and change program was used during the radiated and conducted emission testing.

NOTE: This is a sample of the basic program used during the test. However, during testing, a different software program may be used; whichever determines the worst-case condition. In addition, the program used also depends on the number and type of devices being tested.

Actual program used is the “H” pattern in Notepad under Windows environment. All resolution modes (1024x768, 832x624, 800x600, 720x400, 640x480, 640x350) were investigated and tested

11.1 Conclusion

The data collected shows that the HYUNDAI IMAGEQUEST CO., LTD. 40-inch LCD TV Monitor **FCC ID:PJILT40DW000** complies with §15.107 and §15.109 of the FCC Rules.