


SK TECH CO., LTD.

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Certificate of Compliance (Class II)

Test Report No.:	SKTFCE-050628-057		
NVLAP CODE :	200220-0		
Applicant:	Woo Young Telecom Co., Ltd.		
Applicant Address:	222-6, Suwolam-ri, Seotan-myeon, Pyeongtaek-si, Gyeonggi-do, 451-852, Rep. of Korea.		
Manufacturer :	Woo Young Telecom Co., Ltd.		
Manufacturer Address:	222-6, Suwolam-ri, Seotan-myeon, Pyeongtaek-si, Gyeonggi-do, 451-852, Rep. of Korea.		
Product:	LCD MONITOR		
FCC ID:	PXWHL710S	Model No.:	HL710S
Receipt No.:	SKTEU05-0332	Date of receipt:	May 25, 2005
Date of Issue:	June 28, 2005		
Testing location:	SK TECH CO., LTD. 820-2, Wolmoon-Ri, Wabu-Up, Namyangju-Si, Kyunggi-Do, Korea		
Test Standards:	ANSI C63.4 / 2003		
Rule Parts:	FCC part 15 Subpart B		
Equipment Class :	Class B Digital Device Peripheral		
Test Result:	The above mentioned product has been tested and passed.		

Prepared by: S.Y.Ye

Tested by: S.B.Ko/Engineer

Approved by: C.H.Jeong
/Manager & Chief Engineer

Signature

Date

Signature

Date

Signature

Date

Other Aspects :

Abbreviations : · OK, Pass = passed · Fail = failed · N/A = not applicable

- ☞ This test report is not permitted to copy partly without our permission.
- This test result is dependent on only equipment to be used.
- This test result is based on a single evaluation of one sample of the above mentioned.
- This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S Government.
- We certify that this test report has been based on the measurement standards that is traceable to the national or International standards.

NVLAP Lab. Code: 200220-0


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1. General

This equipment has been shown to be capable of compliance with the applicable technical standards and was tested in accordance with the measurement procedures as indicated in this report.

We attest to the accuracy of data. All measurements reported herein were performed by SK Tech Co., Ltd. and were made under Chief Engineer's supervision.

We assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

2. Test Site

SK TECH Co., Ltd.

2.1 Location

820-2, Wolmoon Ri, Wabu-Up, Namyangju-Si, Kyunggi-Do, Korea

The test site is in compliance with ISO/IEC 17025 for general requirements for the competence of testing and calibration laboratories.

This laboratory is accredited by NVLAP for NVLAP Lab. Code : 200220-0 and DATech for DAR-Registration No.:DAT-P-076/97-01



2.2 List of Test and Measurement Instruments

Table 1 : List of Test and Measurement Equipment

- Conducted Disturbance

Kind of Equipment	Type	S/N	Calibrated until
EMI Receiver	ESHS10	862970/019	10.2005
Artificial Mains Network	ESH2-Z5	834549/011	08.2005
EMI Receiver	ESHS10	835871/002	11.2005
Artificial Mains Network	ESH3-Z5	836679/018	08.2005

- Radiated Disturbance

Kind of Equipment	Type	S/N	Calibrated until
EMI Receiver	ESVS 10	825120/013	10.2005
EMI Receiver	ESVS 10	834468/008	11.2005
Spectrum Analyzer	R3361A	11730187	10.2005
Amplifier	8447F	3113A05153	08.2005
Log Periodic Antenna	UHALP9107	1819	10.2005
Biconical Antenna	BBA9106	91031626	10.2005
Open Site Cable	N/A	N/A	N/A
Antenna Turntable Driver	5907	N/A	N/A
Antenna Turntable controller	5906	N/A	N/A
Amp & Receiver connection cable	N/A	N/A	N/A
Amp & Spectrum connection cable	N/A	N/A	N/A
50Ω Switcher	MP59B	6100214538	N/A

2.3 Test Date

Date of Application : May 25, 2005

Date of Test : June 03, 2005 ~ June 10, 2005

2.4 Test Environment

See each test item's description.



3. Description of the tested samples

The EUT is the LCD MONITOR.

3.1 Rating and Physical Characteristics

MODEL	HL710S	
Panel	Type	TFT active matrix
	Size	17 inch
		337.92 x 270.336(mm)
	Pixel Pitch	0.264x0.264(mm)
Display Resolution	Display color	8-bit (16,777,216 colors)
	Basic	1280x1024@60Hz
Frequency	Maximum	1280x1024@75Hz
	Horizontal	31.5-80 KHz
Sync Signal	Vertical	56~75Hz
	TTL.P. or N	
Tilting Degree (U/D)	-5°C~30°C Degree	
Plug& Play	VESA DDC 1/2B	
Power	Input	Internal type:100-240 VAC, 50/60Hz, 0.5A
	Consumption	Under 40W
	Standby mode	1W less
Power Management	VESA DPMS	
Environmental Consideration	Temperature	0-25°C (32°F-77°F)
	Humidity	90% less
Dimensions	Outside	387.5mm(W)x396mm(H)x185mm(D)
Weight	Monitor	3.9kg

3.2 Submitted Documents

N/A



4. Measurement Conditions

Operating voltage of the EUT is 120V, 60Hz

4.1 Modes of Operation

After connecting PC to EUT by VGA cable, and we run "H" pattern stored to PC.

The signal was displayed in the PC monitor, during the all tests

4.2 List of Peripherals

Equipment	Manufacturer	Model Name	Serial No.
Keyboard(PS2)	Jing Mold Enterprise Co. Ltd.	LKB-0107	20103462
Mouse(USB)	LG Electronics	LMULBGS01I	04CU000259
Printer (Parallel)	EPSON PRECISION (PHILIPPINES),INC.	EPSON STYLUS PHOTO 830	ELTK014619
Personal Computer	SAMSUNG	DM-P40	Z39699AXC00334V

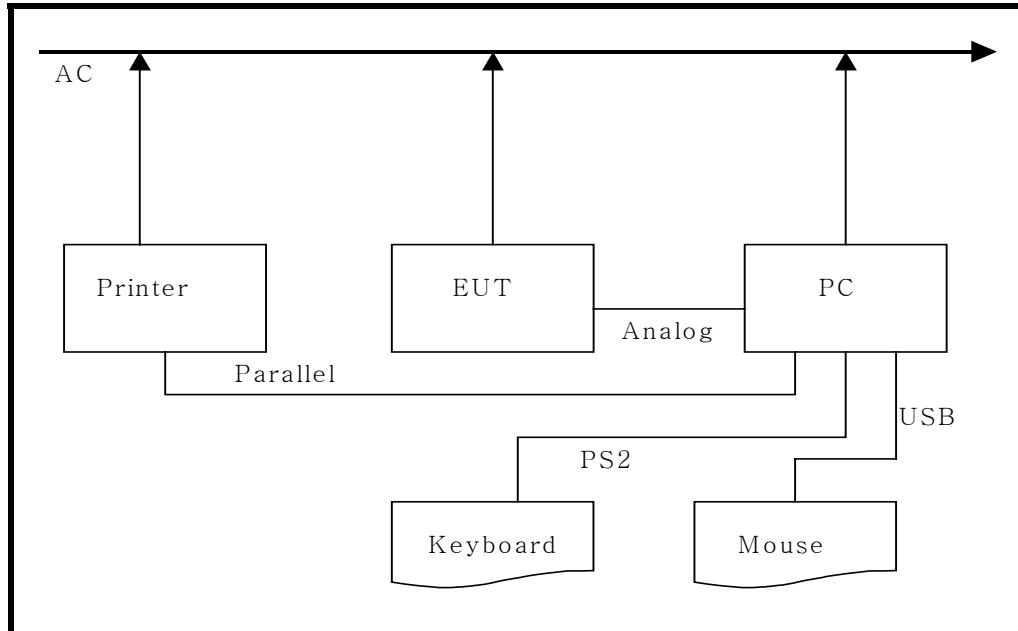


4.3 Type of Used Cables

Equipment	Manufacturer	M/N	S/N	Cables &connectors
VGA(analog)	-	-	-	1.2m shielded Interface cable
Power	DOKYOUNG	DKC-307	N/A	1.3m unshielded power cable
Parallel	EPSON PRECISION (PHILIPPINES),INC.	EPSON STYLUS PHOTO 830	ELTK014637	1.2m shielded interface cable
USB	LG	LMULBGS01I	04CU000258	1.1m unshielded interface cable
PS2	Jing Mold Enterprise Co. Ltd.	LKB-0107	20103462	0.8m unshielded interface cable
Power	KKDK	KKP-2819D	N/A	1.3m unshielded power cable
Power	DONGBANG	PES-21	N/A	1.2m unshielded power cable

4.4 Test Setup

The test setup photographs showed the external supply connections and interfaces.



[System Block Diagram of Test Configuration]



4.5 Uncertainty

1) Radiated disturbance

◎ Horizontally polarized radiated disturbances from 30MHz to 1000MHz at a distance of 10m

Input quantity	Uncertainty of Xi		U(Xi) dB	Ci	Ci _u (xi)	CISPR 16-4
	dB	Probability distribution function				
1) Receiver reading	±0.1	K=1	0.1	1	0.1	0.10
2) Attenuation: antenna-receiver	±0.18	K=2	0.09	1	0.09	0.05
3) Antenna factor	±1.5	K=2	0.75	1	0.75	1.00
RECEIVER CORRECTIONS:						
4) Sine wave voltage	±0.56	K=2	0.28	1	0.50	0.50
5) Pulse amplitude response	±1.5	Rectangular (1/3)	0.87	1	0.87	0.87
6) Pulse repetition rate response	±1.5	Rectangular (1/3)	0.87	1	0.87	0.87
7) Noise floor proximity	±0.5	K=2	0.25	1	0.25	0.25
8) AF frequency interpolation	±0.3	Rectangular (1/3)	0.17	1	0.17	0.17
9) Balance	±0.3	Rectangular (1/3)	0.17	1	0.17	0.53
10) AF height deviations	±0.5	Rectangular (1/3)	0.29	1	0.29	0.29
11) Phase center location	±0.3	Rectangular (1/3)	0.17	1	0.17	0.17
12) Directive difference	+1.0	Rectangular (1/3)	0.29	1	0.29	0.29
13) Cross polarization	±0.9	Rectangular (1/3)	0.52	1	0.52	0.52
14) Site corrections	±2.6	Rectangular (1/3)	1.5	1	1.5	1.63
15) Mismatch (ant-receiver)	±1.06	U-shaped (1/2)	0.75	1	0.75	0.67

Combined Uncertainty

$$U_c(x_i) = \sqrt{(1)^2 + (2)^2 + (3)^2 + (4)^2 + (5)^2 + (6)^2 + (7)^2 + (8)^2 + (9)^2 + (10)^2 + (11)^2 + (12)^2 + (13)^2 + (14)^2 + (15)^2} = 2.37$$

Expanded Uncertainty

$$U = k * U_c(x_i) = 2 * 2.37 = 4.74 \text{dB}$$

(The coverage factor k =2 yields approximately a 95% level of confidence)


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◎ Vertically polarized radiated disturbances from 30MHz to 1000 MHz at a distance of 10 m

Input quantity	Uncertainty of Xi		U(Xi) dB	Ci	Ciu(xi)	CISPR 16-4
	dB	Probability distribution function				
1) Receiver reading	±0.1	K =1	0.1	1	0.1	0.10
2) Attenuation: antenna-receiver	±0.18	K=2	0.09	1	0.09	0.05
3) Antenna factor	±1.5	K=2	0.75	1	0.75	1.00
RECEIVER CORRECTIONS:						
4) Sine wave voltage	±0.56	K=2	0.28	1	0.50	0.50
5) Pulse amplitude response	±1.5	Rectangular (√3)	0.87	1	0.87	0.87
6) Pulse repetition rate response	±1.5	Rectangular (√3)	0.87	1	0.87	0.87
7) Noise floor proximity	±0.5	K=2	0.25	1	0.25	0.25
8) AF frequency interpolation	±0.3	Rectangular (√3)	0.17	1	0.17	0.17
9) Balance	±0.9	Rectangular (√3)	0.52	1	0.52	0.52
10) AF height deviations	±0.3	Rectangular (√3)	0.17	1	0.17	0.17
11) phase center location	±0.3	Rectangular (√3)	0.17	1	0.17	0.17
12) directive difference	+1.0	Rectangular (√3)	0.29	1	0.29	0.29
13) cross polarization	±0.9	Rectangular (√3)	0.52	1	0.52	0.52
14) site corrections	±2.6	Rectangular (√3)	1.5	1	1.5	1.63
15) Mismatch (ant-receiver)	±1.06	U-shaped (√2)	0.75	1	0.75	0.67

Combined Uncertainty

$$Uc(xi) = \sqrt{(1)^2 + (2)^2 + (3)^2 + (4)^2 + (5)^2 + (6)^2 + (7)^2 + (8)^2 + (9)^2 + (10)^2 + (11)^2 + (12)^2 + (13)^2 + (14)^2 + (15)^2} = 2.43$$

Expanded Uncertainty

$$U = k * Uc(xi) = 2 * 2.43 = 4.86 \text{ dB}$$

(The coverage factor k =2 yields approximately a 95% level of confidence)



2) Conducted disturbance

◎ Conducted disturbance from 150 KHz to 30 MHz using a 50 Ω/ 50 uH AMN

input quantity	Uncertainty of Xi		U(Xi) dB	Ci	Ciu(xi)	CISPR 16-4
	dB	Probability distribution function				
1) Receiver Readeing	±0.1	K=1	0.1	1	0.1	0.10
2) Attenuation:AMN-receiver	±0.36	Triangular ($\sqrt{6}$)	0.15	1	0.15	0.05
RECEIVER CORRECTIONS:						
3) Sine wave voltage	±0.5	K=2	0.25	1	0.25	0.50
4) Pulse amplitude response	±1.5	Rectangular ($\sqrt{3}$)	0.87	1	0.87	0.87
5) Pulse repetition rate response	±1.5	Rectangular ($\sqrt{3}$)	0.87	1	0.87	0.87
6) AMN voltage division factor	±0.07	K=2	0.04	1	0.04	0.1
7) Mismatch : AMN-receiver	±0.55	U-shaped ($\sqrt{2}$)	0.39	1	0.39	0.53
8) AMN impedance	±1.52	Triangular ($\sqrt{6}$)	0.62	1	0.62	1.08

- 1)~8) For numbered comments, refer to following articles

Combined Uncertainty

$$U_c(x_i) = \sqrt{(1)^2 + (2)^2 + (3)^2 + (4)^2 + (5)^2 + (6)^2 + (7)^2 + (8)^2} = 1.47$$

Expanded uncertainty

$$U = k * U_c(x_i) = 2 * 1.47 = 2.94 \text{ dB}$$

The coverage factor $k = 2$ yields approximately a 95% level of confidence

◎ Refer

- 1) receiver's resolution capacity
- 2) refer to the sub clause 11. of a calibration report
- 3) quoted from CISPR 16-4
- 4) refer to a calibration report
- 5) refer to CISPR 16-4 article 5. 7)
- 6) refer to a calibration report and a measured AMN impedance data



5. EMISSION Test

5.1 Conducted Emissions

Result:**PASS**

The line-conducted facility is located inside a 2.0M x 3.6M x 7.2M shielded enclosure.

The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 604-05.

A 1 m x 1.5 m wooden table 80 cm high is placed 40 cm. away from the vertical wall and 1.5 m away from the side wall of the shielded room. ROHDE & SCHWARZ Model ESH3-Z5 (10 kHz-30 MHz) 50 ohm/50 uH Line-Impedance Stabilization Networks(LISNs) are bonded to the shielded room.

The EUT is powered from the ROHDE & SCHWARZ LISN and the support equipment is powered from the ROHDE & SCHWARZ LISN. Power to the LISNs are filtered by a high-current high-insertion loss Lindgren enclosures power line filters (100dB 14 kHz-10 GHz).

The purpose of the filter is to attenuate ambient signal interference and this filter is also bonded to the shielded enclosure.

All electrical cables are shielded by braided tinned copper zipper tubing with inner diameter of 1/2".

If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply lines will be connected to the ROHDE & SCHWARZ LISN.

All interconnecting cables more than 1 meter were shortened by non-inductive bundling (serpentine fashion) to a 1-meter length.

Sufficient time for the EUT, support equipment, and test equipment was 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 from the EUT.

The spectrum was scanned from 150 kHz to 30 MHz with 100msec. sweep time.

The frequency producing the maximum level was reexamined using EMI/field Intensity Meter (ESHS 10) and Quasi-Peak adapter. The detector function was set to CISPR quasi-peak mode.

The bandwidth of the receiver was set to 10 kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission.

Each emission was maximized by: switching power lines; varying the mode of operation or resolution; clock or data exchange speed; if applicable; whichever determined the worst-case emission.

Photographs of the worst-case emission can be seen in photograph of conducted test.

Each EME reported was calibrated using self-calibrating mode.

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Figure 1 : Spectral Diagram, LINE - PE

3 Jun 2005 11:18

CONDUCTED DISTURBANCE

EUT: HL710S

Manuf:

Op Cond:

Operator:

Test Spec:

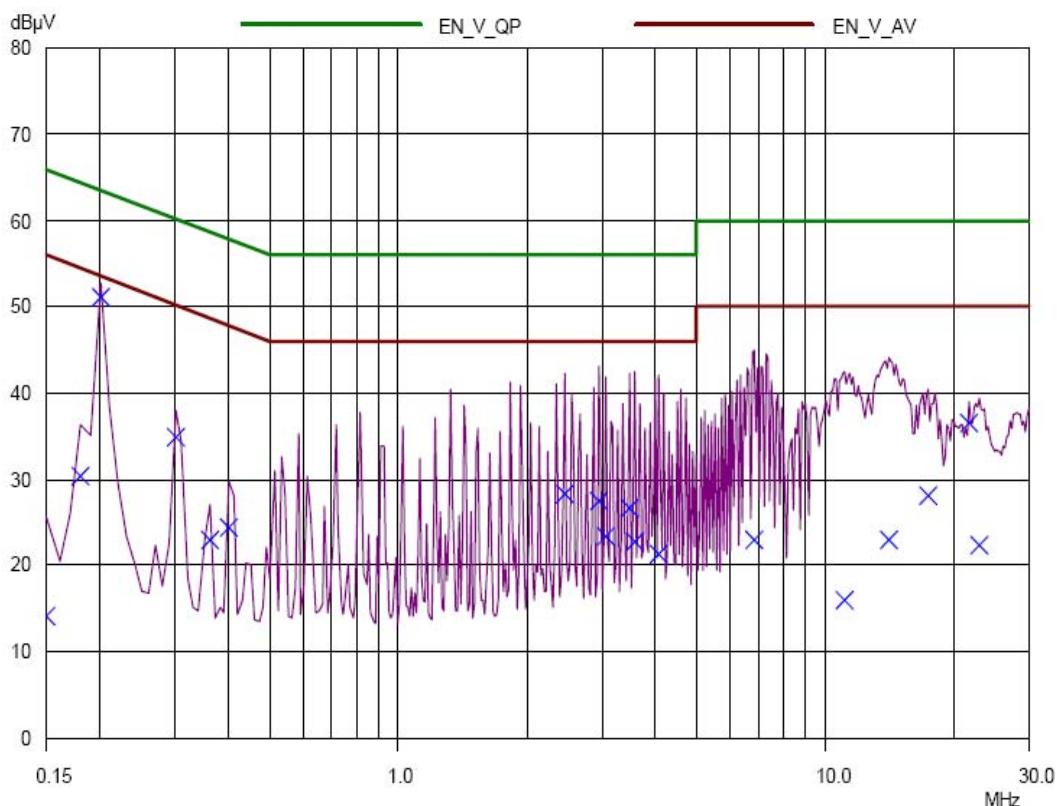
Comment: LINE-PE

Result File: 711D_N.dat : LCD Monitor

Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	10kHz	10kHz	PK	100msec	Auto	OFF	60dB

Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 35 dB



**Figure 2: Test Data, LINE – PE**

3 Jun 2005 11:18

CONDUCTED DISTURBANCE

EUT: HL710S

Manuf:

Op Cond:

Operator:

Test Spec:

Comment: LINE-PE

Result File: 711D_N.dat : LCD Monitor

Scan Settings (1 Range)

Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	10kHz	10kHz	PK	100msec	Auto	OFF	60dB

Final Measurement: Detector: X QP
 Meas Time: 1sec
 Peaks: 8
 Acc Margin: 35 dB

Final Measurement Results

Frequency	QP Level	QP Limit	QP Delta
MHz	dB μ V	dB μ V	dB
0.15	14.22	66.00	51.78
0.18	30.32	64.49	34.17
0.2	51.16	63.61	12.45
0.3	34.80	60.24	25.44
0.36	22.88	58.73	35.85
0.4	24.44	57.85	33.41
2.44	28.25	56.00	27.75
2.95	27.58	56.00	28.42
3.05	23.37	56.00	32.63
3.46	26.68	56.00	29.32
3.56	22.82	56.00	33.18
4.07	21.35	56.00	34.65
6.82	22.90	60.00	37.10
11.1	15.97	60.00	44.03
14.06	23.06	60.00	36.94
17.42	28.04	60.00	31.96
21.56	36.59	60.00	23.41
22.93	22.30	60.00	37.70

* limit exceeded

**SK TECH CO., LTD.**

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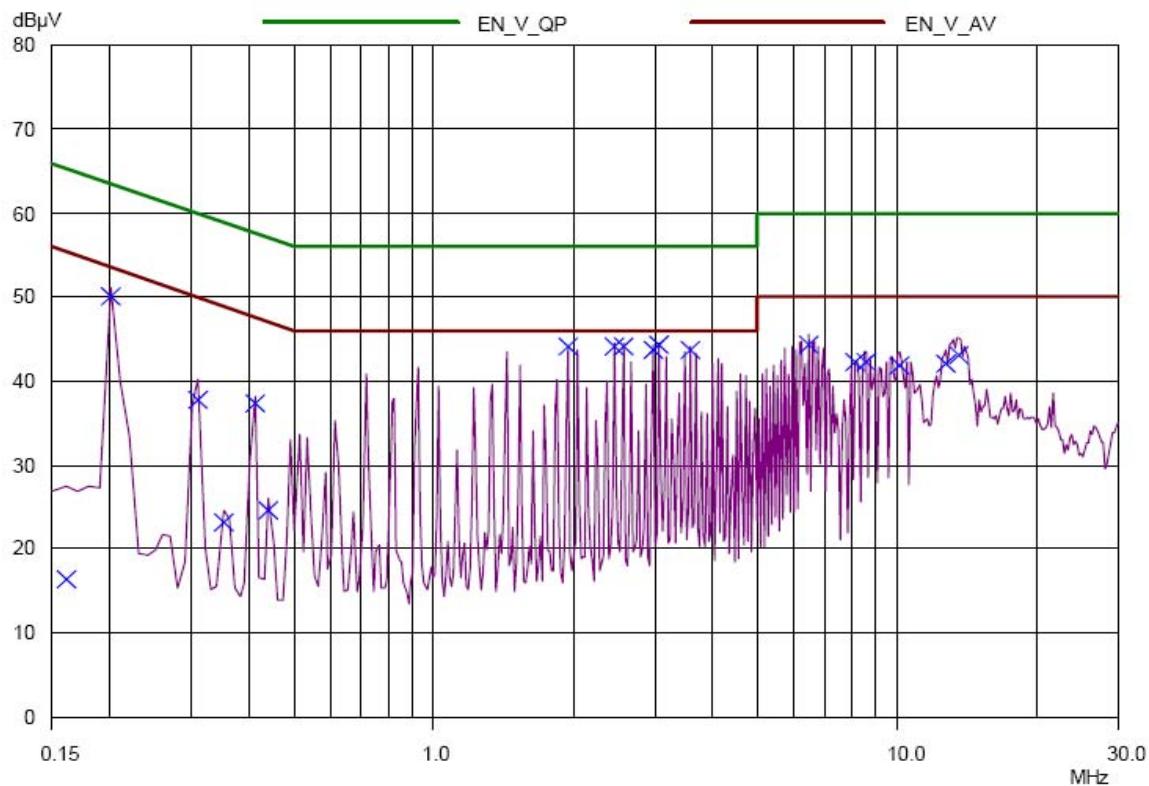
Figure 3 : Spectral Diagram, NEUTRAL – PE

3 Jun 2005 11:42

CONDUCTED DISTURBANCE

EUT: HL710S
Manuf:
Op Cond:
Operator:
Test Spec:
Comment: NEUTRAL-PE

Scan Settings	(1 Range)				Receiver Settings				
	Frequencies					M-Time	Atten	Preamp	OpRge
	Start	Stop	Step	IF BW	Detector	100msec	Auto	OFF	60dB
Start	150kHz								
Stop		30MHz		10kHz	PK				
Final Measurement:					Detector: X QP				
					Meas Time: 1sec				
					Peaks: 8				
					Acc Margin: 35 dB				



**Figure 4: Test Data, NEUTRAL – PE**

3 Jun 2005 11:42

CONDUCTED DISTURBANCE

EUT: HL710S
 Manuf:
 Op Cond:
 Operator:
 Test Spec:
 Comment: NEUTRAL-PE

Scan Settings (1 Range)		Receiver Settings						
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	10kHz	10kHz	PK	100msec	Auto	OFF	60dB

Final Measurement: Detector: X QP
 Meas Time: 1sec
 Peaks: 8
 Acc Margin: 35 dB

Final Measurement Results

Frequency MHz	QP Level dB μ V	QP Limit dB μ V	QP Delta dB
0.16	16.42	65.46	49.04
0.2	50.06	63.61	13.55
0.31	37.84	59.97	22.13
0.35	23.17	58.96	35.79
0.41	37.43	57.65	20.22
0.44	24.64	57.06	32.42
1.94	44.04	56.00	11.96
2.45	44.19	56.00	11.81
2.55	44.20	56.00	11.80
2.96	43.79	56.00	12.21
3.06	44.42	56.00	11.58
3.57	43.79	56.00	12.21
6.43	44.39	60.00	15.61
8.06	42.22	60.00	17.78
8.57	42.18	60.00	17.82
10.1	41.88	60.00	18.12
12.65	42.11	60.00	17.89
13.57	43.05	60.00	16.95

* limit exceeded



5.2 Radiated Emissions

Result :**PASS**

Preliminary measurements were made indoors at 3 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 system configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna were noted for each frequency found.

The spectrum was scanned from 30 to 300 MHz using biconical antenna and from 300 to 1000 MHz using log-periodic antenna. Above 1 GHz, linearly polarized double ridge horn antennas were used.

Final measurements were made outdoors at 3-meter test range using SCHWARZBECK dipole antennas. The test equipment was placed on a wooden table situated on a 4x4 meter area adjacent to the measurement area. Turntable was to protect from weather in the dome that made with FRP.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined and investigated using EMI/Field Intensity Meter(ESVS 10) and Quasi-Peak Adapter. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 100 kHz or 1 MHz depending on the frequency or type of signal.

The half-wave dipole antenna was tuned to the frequency found during preliminary radiated measurements. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the maximum emission for the frequency and were placed on top of a 0.8-meter high non-metallic 1 x 1.5 meter table.

The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. 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. Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed, and/or support equipment, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission.

Photographs of the worst-case emission can be seen in photograph of radiated emission test.

Each EME reported was calibrated using self-calibrating mode.

**Table 2 : Test Data, Radiated Emissions****HL710S(AUO Panel)**

Frequency [MHz]	Pol.	Height [m]	Real Reading	Correction Factor		T-Fact [dB]	Data [dBuV/m]	Limits [dBuV/m]	Margin [dB]
				Antenna	Cable				
96.08	H	4.0	25.1	9.5	1.4	10.9	36.0	43.5	7.5
161.37	H	3.8	17.8	15.3	2.1	17.4	35.2	43.5	8.3
185.41	V	2.0	16.8	15.8	2.1	17.9	34.7	43.5	8.8
548.46	H	2.2	18.8	19.8	4.5	24.3	43.1	46.0	2.9
972.31	H	2.4	11.2	25.2	5.7	30.9	42.1	54.0	11.9

HL710S(Hannstar Panel)

Frequency [MHz]	Pol.	Height [m]	Real Reading	Correction Factor		T-Fact [dB]	Data [dBuV/m]	Limits [dBuV/m]	Margin [dB]
				Antenna	Cable				
162.02	H	4.0	18.1	15.3	2.1	17.4	35.5	43.5	8.0
185.04	H	4.0	16.8	15.8	2.1	17.9	34.7	43.5	8.8
229.32	V	1.2	15.9	17.2	2.6	19.8	35.7	46.0	10.3
633.39	V	2.4	17.4	21.5	4.6	26.1	43.5	46.0	2.5
889.49	H	3.6	12.3	24.9	5.1	30.0	42.3	46.0	3.7
979.91	H	3.6	11.0	25.4	5.7	31.1	42.1	54.0	11.9

HL710S(Hydis Panel)

Frequency [MHz]	Pol.	Height [m]	Real Reading	Correction Factor		T-Fact [dB]	Data [dBuV/m]	Limits [dBuV/m]	Margin [dB]
				Antenna	Cable				
144.52	H	4.0	19.1	14.9	2.0	16.9	36.0	43.5	7.5
161.92	V	1.8	17.7	15.3	2.1	17.4	35.1	43.5	8.4
229.87	H	4.0	15.2	17.2	2.6	19.8	35.0	46.0	11.0
243.41	V	3.2	23.2	17.4	2.6	20.0	43.2	46.0	2.8
980.61	H	2.0	11.6	25.4	5.7	31.1	42.7	54.0	11.3

**SK TECH CO., LTD.***Page 18 of 18***NOTES:**

1. All modes of operation were investigated and the worst-case emission are reported.
2. All other emission are non-significant.
3. All readings are calibrated by self-mode in receiver.
4. Measurements using CISPR quasi-peak mode.
5. H = Horizontal, V = Vertical Polarization
6. DATA = Real Reading + T - FACTOR(=Antenna+Cable)
7. Margin = Limits - DATA