



SK TECH CO., LTD.

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Certificate of Compliance

Test Report No.:	SKTFCE-050414-029		
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:	PXWHL900D	Model No.:	HL900D
Receipt No.:	SKTEU05-0222	Date of receipt:	Apr. 04, 2005
Date of Issue:	Apr. 14, 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
Other Aspects :			
Abbreviations :	· OK, Pass = passed · Fail = failed · N/A = not applicable		
<p>☞ •This test report is not permitted to copy partly without our permission.</p> <p>•This test result is dependent on only equipment to be used.</p> <p>•This test result is based on a single evaluation of one sample of the above mentioned.</p> <p>•This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S Government.</p> <p>• We certify that this test report has been based on the measurement standards that is traceable to the national or International standards.</p>			
 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	04.2005
Biconical Antenna	BBA9106	91031626	04.2005
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 : Apr. 04, 2005

Date of Test : Apr. 04, 2005 ~ Apr. 06, 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

Item	Description
LCD	19inch (48.3cm)
Frequency	Analog : Horizontal 31.5~80kHz / Vertical 56~75Hz Digital : Horizontal 31~64KHz / Vertical 59~61Hz
Maximum Resolution	Analog : 1280x1024@75Hz Digital : 1280x1024@60Hz(SXGA)
Response Time	8ms
Input Signal	RGB Analog, DVI Standard 1.0
Input Port	15pin D-Sub, 24pin DVI-D
Benefit Function	OSD(On Screen Display)/Plug & Play
Power	AC 100~240V, 50/60Hz(LCD included Adaptor inside)
Consumption Power	Max 40W
Size	426mm x 193mm x 406mm
Weight	5.0kg

3.2 Submitted Documents

N/A



4. Measurement Conditions

Operating voltage of the EUT is 120V, 60Hz

4.1 Modes of Operation

After connect PC to EUT by VGA cable and run "H" pattern test program stored to PC.

The signal was displayed in the EUT, during the all tests.

4.2 List of Peripherals

Description	Manufacturer	Model Name	Serial No.	FCC ID
PC	SAMSUNG	ZMP35	X71498DX900234 E	-
Keyboard	Jing Mold Enterprise	LKB-0107	20103129	-
Mouse	LG electronics	LMULBGS01I	04CU000259	-
Printer	EPSON	EPSON STYLUS PHOTO 830	ELTK014633	-

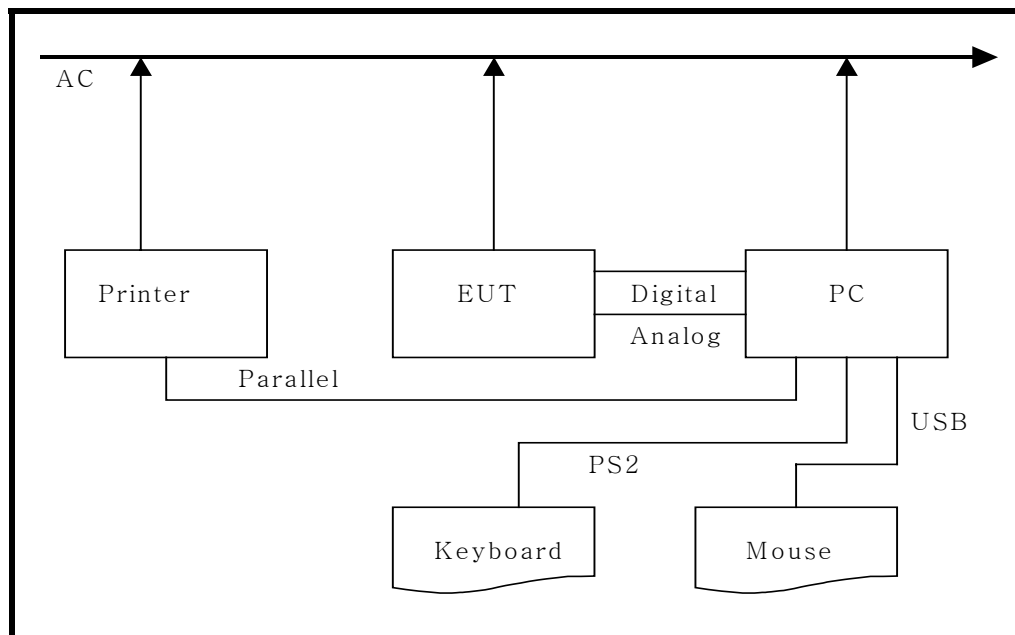


4.3 Type of Used Cables

Equipment	Manufacturer	M/N	S/N	Cables &connectors
VGA(analog)	-	-	-	1.2m shielded Interface cable
VGA(digital)	-	-	-	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 unshielded 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	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	±0.3	Rectangular (√3)	0.17	1	0.17	0.53
10) AF height deviations	±0.5	Rectangular (√3)	0.29	1	0.29	0.29
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

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

Expanded Uncertainty

$$U = k \cdot Uc(xi) = 2 \cdot 2.37 = 4.74 \text{ dB} \quad (\text{The coverage factor } k=2 \text{ yields approximately a 95\% level of confidence})$$



② Vertically polarized radiated disturbances from 30MHz to 1000MHz at a distance of 10m

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

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

Expanded Uncertainty

$$U = k \cdot U_c(x_i) = 2 \cdot 2.43 = \mathbf{4.86 \text{ dB}}$$

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

**2) Conducted disturbance**

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

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:AMN-receiver	±0.36	Triangular (√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 (√3)	0.87	1	0.87	0.87
5) Pulse repetition rate response	±1.5	Rectangular (√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 (√2)	0.39	1	0.39	0.53
8) AMN impedance	±1.52	Triangular (√6)	0.62	1	0.62	1.08

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

Combined Uncertainty

$$Uc(xi) = \sqrt{(1)^2 + (2)^2 + (3)^2 + (4)^2 + (5)^2 + (6)^2 + (7)^2 + (8)^2} = \mathbf{1.47}$$

Expanded uncertainty

$$U = k \cdot Uc(xi) = 2 \cdot 1.47 = \mathbf{2.94dB}$$

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 1m x 1.5m wooden table 80cm high is placed 40cm. away from the vertical wall and 1.5m away from the side wall of the shielded room. ROHDE & SCHWARZ Model ESH3-Z5 (10kHz-30MHz) 50ohm/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 14kHz-10GHz).

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 150kHz to 30MHz 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 10kHz. 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.



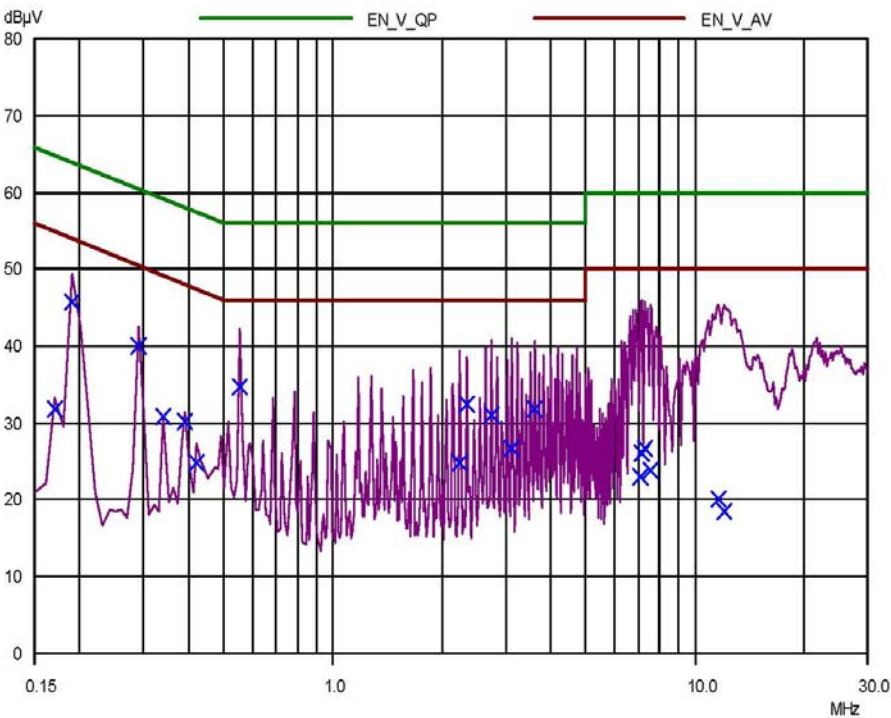
Figure 1 : Spectral Diagram, LINE - PE (AUO Panel)

14 Mar 2005 10:49

CONDUCTED DISTURBANCE

EUT: HL900D
Manuf:
Op Cond:
Operator:
Test Spec:
Comment: LINE-PE
Result File: HL900D_L.dat : 19" LCD Monitor

Scan Settings		(1 Range)			Receiver Settings				
Frequencies									
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						



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Figure 2: Test Data, LINE – PE(AUO Panel)

14 Mar 2005 10:49

CONDUCTED DISTURBANCE

EUT: HL900D
 Manuf:
 Op Cond:
 Operator:
 Test Spec:
 Comment: LINE-PE

Result File: HL900D_L.dat : 19" LCD Monitor

Scan Settings (1 Range)

Frequencies		Step		IF BW		Detector		Receiver Settings		M-Time		Atten		Preamp		OpRge	
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 dBμV	QP Limit dBμV	QP Delta dB
0.17	31.87	64.96	33.09
0.19	45.82	64.04	18.22
0.29	39.99	60.52	20.53
0.34	30.74	59.20	28.46
0.39	30.18	58.06	27.88
0.42	24.75	57.45	32.70
0.55	34.76	56.00	21.24
2.24	24.92	56.00	31.08
2.34	32.44	56.00	23.56
2.73	31.08	56.00	24.92
3.12	26.72	56.00	29.28
3.61	31.86	56.00	24.14
7.02	22.90	60.00	37.10
7.12	25.98	60.00	34.02
7.22	26.70	60.00	33.30
7.51	23.70	60.00	36.30
11.61	20.12	60.00	39.88
12.0	18.41	60.00	41.59

* limit exceeded

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Figure 3 : Spectral Diagram, NEUTRAL – PE(AUO Panel)

14 Mar 2005 11:20

CONDUCTED DISTURBANCE

EUT: HL900D

Manuf:

Op Cond:

Operator:

Test Spec:

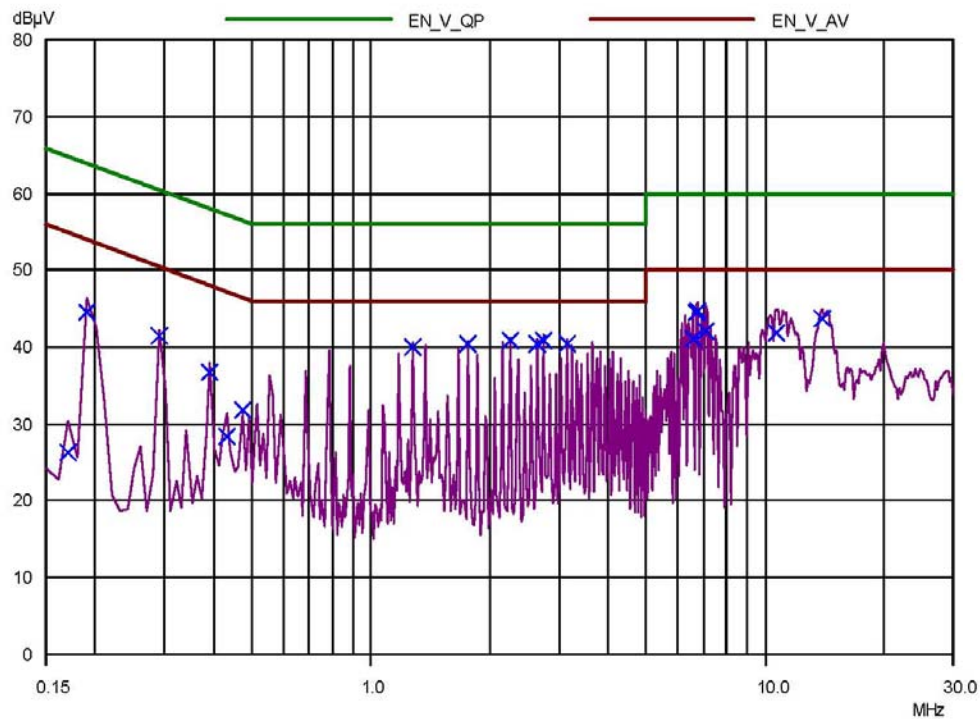
Comment: NEUTRAL-PE

Result File: hl900d_1.dat : 19" 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



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Figure 4: Test Data, NEUTRAL – PE(AUO Panel)

14 Mar 2005 11:20

CONDUCTED DISTURBANCE

EUT: HL900D

Manuf:

Op Cond:

Operator:

Test Spec:

Comment: NEUTRAL-PE

Result File: hl900d_l.dat : 19" LCD Monitor

Scan Settings (1 Range)

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

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

Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.17	26.18	64.96	38.78
0.19	44.56	64.04	19.48
0.29	41.51	60.52	19.01
0.39	36.78	58.06	21.28
0.43	28.30	57.25	28.95
0.47	31.73	56.51	24.78
1.27	39.98	56.00	16.02
1.76	40.52	56.00	15.48
2.25	40.92	56.00	15.08
2.64	40.38	56.00	15.62
2.74	40.93	56.00	15.07
3.13	40.40	56.00	15.60
6.55	41.09	60.00	18.91
6.65	44.53	60.00	15.47
6.75	44.69	60.00	15.31
7.04	42.06	60.00	17.94
10.66	41.81	60.00	18.19
13.89	43.80	60.00	16.20

* limit exceeded

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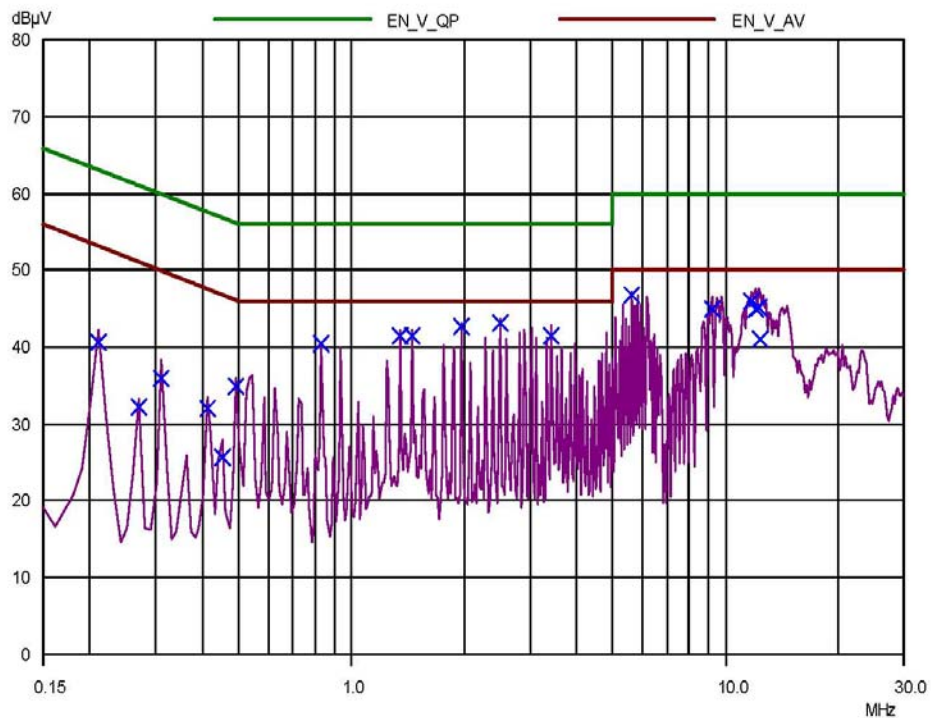
Figure 5 : Spectral Diagram, LINE - PE (LG Panel)**LCD Monitor
CONDUCTED DISTURBANCE**

05 Apr 2005 03:40

EUT: HL900D
Manuf:
Op Cond:
Operator:
Test Spec:
Comment: LINE-PE
LG Panel

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



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Figure 6: Test Data, LINE – PE(LG Panel)

LCD Monitor

05 Apr 2005 03:40

CONDUCTED DISTURBANCE

EUT: HL900D

Manuf:

Op Cond:

Operator:

Test Spec:

Comment: LINE-PE
LG Panel

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 dBuV	QP Limit dBuV	QP Delta dB
0.21	40.54	63.21	22.67
0.27	32.13	61.12	28.99
0.31	35.84	59.97	24.13
0.41	32.11	57.65	25.54
0.45	25.55	56.88	31.33
0.49	34.96	56.17	21.21
0.83	40.42	56.00	15.58
1.35	41.51	56.00	14.49
1.45	41.54	56.00	14.46
1.97	42.61	56.00	13.39
2.49	43.16	56.00	12.84
3.42	41.50	56.00	14.50
5.6	46.80	60.00	13.20
9.23	45.02	60.00	14.98
11.72	45.92	60.00	14.08
12.03	45.05	60.00	14.95
12.24	45.13	60.00	14.87
12.34	41.08	60.00	18.92

* limit exceeded

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Figure 7 : Spectral Diagram, NEUTRAL – PE(LG Panel)**LCD Monitor
CONDUCTED DISTURBANCE**

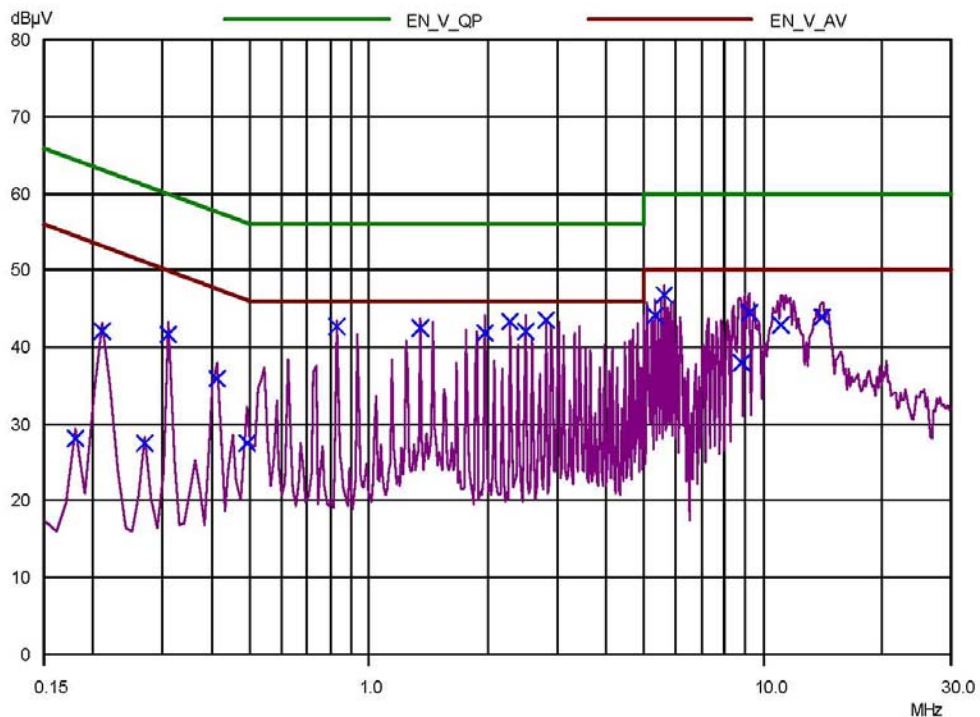
05 Apr 2005 04:16

EUT: HL900D
Manuf:
Op Cond:
Operator:
Test Spec:
Comment: NEUTRAL-PE
LG Panel
Result File: LINE.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



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Figure 8: Test Data, NEUTRAL – PE(LG Panel)

LCD Monitor CONDUCTED DISTURBANCE

05 Apr 2005 04:16

EUT: HL900D
 Manuf:
 Op Cond:
 Operator:
 Test Spec:
 Comment: NEUTRAL-PE
 LG Panel
 Result File: LINE.dat : LCD Monitor

Scan Settings			Receiver 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 MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.18	28.14	64.49	36.35
0.21	42.13	63.21	21.08
0.27	27.39	61.12	33.73
0.31	41.74	59.97	18.23
0.41	35.92	57.65	21.73
0.49	27.39	56.17	28.78
0.83	42.75	56.00	13.25
1.35	42.58	56.00	13.42
1.97	41.96	56.00	14.04
2.28	43.38	56.00	12.62
2.49	42.01	56.00	13.99
2.8	43.59	56.00	12.41
5.29	44.03	60.00	15.97
5.6	46.74	60.00	13.26
8.82	37.94	60.00	22.06
9.23	44.45	60.00	15.55
11.1	42.82	60.00	17.18
14.0	43.85	60.00	16.15

* 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 1GHz, 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 100kHz or 1MHz 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.

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Table 2 : Test Data, Radiated Emissions**HL900D(AUO Panel)**

Frequency [MHz]	Pol.	Height [m]	Real Reading	Correction Factor		T-Fact [dB]	Data [dBuV/m]	Limits [dBuV/m]	Margin [dB]
				Antenna	Cable				
199.30	H	4.0	15.5	16.1	2.3	18.4	33.9	43.5	9.6
220.49	V	1.0	14.3	16.9	2.6	19.5	33.8	46.0	12.2
251.20	H	1.7	20.7	17.6	2.7	20.3	41.0	46.0	5.0
324.55	V	2.4	20.5	16.7	3.1	19.8	40.3	46.0	5.7
432.00	H	2.2	22.7	17.6	3.7	21.3	44.0	46.0	2.0
540.00	H	4.0	18.6	19.7	4.5	24.2	42.8	46.0	3.2

HL900D(LG Panel)

Frequency [MHz]	Pol.	Height [m]	Real Reading	Correction Factor		T-Fact [dB]	Data [dBuV/m]	Limits [dBuV/m]	Margin [dB]
				Antenna	Cable				
144.91	V	1.2	16.5	14.9	2.0	16.9	33.4	43.5	10.1
229.42	V	1.6	14.6	17.2	2.6	19.8	34.4	46.0	11.6
243.55	H	2.2	18.9	17.4	2.6	20.0	38.9	46.0	7.1
324.56	V	3.0	20.2	16.7	3.1	19.8	40.0	46.0	6.0
757.15	H	2.4	15.0	23.0	4.8	27.8	42.8	46.0	3.2
865.17	H	3.6	11.6	23.9	5.1	29.0	40.6	46.0	5.4

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