

SK TECH CO., LTD.

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FCC-Certificate of Compliance

Test Report No.:	SKTFCE-070703-088					
NVLAP CODE :	200220-0					
Applicant:	Woo Young Telecom Co., Ltd.					
Applicant Address:	222-6, Suwolam-ri, Seotan-myeo Rep. of Korea.	on, Pyeongtaek-si, Gye	eonggi-do, 451-852,			
Manufacturer :	Woo Young Telecom Co., Ltd.					
Manufacturer Address:	222-6, Suwolam-ri, Seotan-myeo Rep. of Korea.	222-6, Suwolam-ri, Seotan-myeon, Pyeongtaek-si, Gyeonggi-do, 451-852, Rep. of Korea.				
Product:	LCD Monitor					
FCC ID:	PXWU90A	Model No.:	U90A			
Multi Model No.:	HL900S, HL901S					
Receipt No.:	SKTEU07-0506	Date of receipt:	Oct. 19, 2006			
Date of Issue:	Jul. 03, 2007 ACCRE	DITATUS				
Testing location:	SK TECH CO., LTD. 820-2, Wolmoon-Ri, Wabu-Up, N	lamyan <mark>gju</mark> -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 ha	s been tested and pas	sed.			

Prepared by: S.Y.Ye

Tested by:H.P.Kim/Engineer

Approved by: D.H.Kang /Manager& Chief Engineer

yesungeoung.

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 Signature
 Date
 Signature
 Date
 Signature
 Date

 Other Aspects :
 - OK, Pass = passed - Fail = failed - N/A = not applicable
 - 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.
 - •This test report is the accredited testing items by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

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 recognized as a Conformity Assessment Body(CAB) for CAB's,

Designation Number: **KR0007** by FCC, is accredited by NVLAP for NVLAP Lab. Code:: **200220-0** and DATech for DAR-Registration No.**DAT-P-076/97-01** and KOLAS for Accreditation No.:**KT191.**



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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Conducted Disturbance

Kind of Equipment	Туре	S/N	Calibrated until
EMI Receiver	ESHS10	835871/002	09.2007
Artificial Mains Network	ESH2-Z5	834549/011	07.2007

Radiated Disturbance

Kind of Equipment	Туре	S/N	Calibrated until
EMI Receiver	ESIB40	100277	02.2007
Amplifier	8447F	3113A05153	07.2007
Trilog-Broadband Antenna	VULB9168	9168-230	07.2007
Antenna Turntable Driver	5907	91X <mark>5</mark> 18	N/A
Antenna Turntable controller	5906	91X519	N/A

TESTING NO. 191

2.3 Test Date

Date of Application : Oct. 19, 2006

Date of Test : Oct. 28, 2006 ~ Oct. 29, 2006

2.4 Test Environment

See each test item's description.



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3. Description of the tested samples

The EUT is a LCD Monitor.

Superior Image Quality

High Brightness & Fine contrast

Ergonomic Cabinet Design & Lightweight

Wall/ arm Mounting Capability

Less Power Consumption(Power Management)

3.1 Rating and Physical Characteristics

	ITEM	Description		
	Size	19.0 Inch		
	Туре	TFT-LCD		
	Pixel Pitch	0.294 x 0.294mm		
	Surface Treatment	Anti-Glare, Hard Coating, 3H		
LCD	Viewable Size(HxV)	376.32 x 301.056		
	Brightness	300 cd/m2		
	Contrast Ratio TESTING	700:1 (Typ.)		
	Color	16.7M Colors (Natural Color)		
	Viewing Angle(CR=10)	Up/Down 70° /65°, Left/Right 70°/70°		
Fraguenov	Analog	Horizontal:31.5 x 80KHz/ Vertical:56~75Hz		
Frequency	Digital	Horizontal: 31x64KHz/ Vertical:59~61 Hz		
Resolution	Analog	1280 x 1024 @75Hz		
Resolution	Digital	1280 x 1024 @60Hz		
Response Time (Typ	.)	8ms		
Input Signal		RGB Analog, DVI Standard 1.0		
Speaker		L+R: 2W+2W=4W		
Input Terminal		15 pin D-Sub, 24 pin DVI-D		
User Control	Keys	MENU, AUTO, MODE, POWER, SELECT, MUTE Adjust(▼), Adjust(▲)		
OSD Function		-Auto Configuration		
		•Mode change : Analog->Digital-> Analog		
		-Brightness/ Contrast/ Gamma		
		-Colors(Warm/ Cold Color, User RGB Color)		



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User Control	OSD Function	• Position(Horizontal, Vertical, Clock,				
		Phase)				
		OSD Function				
		-OSD Position-OSD Time				
		-OSD Language (Eng, Fra, Deu,Ita, Spa)				
		■Set-up				
		-Auto Balance				
		-Input Source (Analog/Digital)				
		-Information				
		-Recall				
		-Exit				
		Colors (Warm/ cold color, User RGB Color)				
		■Plug & Play: VESA DDC 1/2B				
Benefit Function		Power Saving: VESA DPMS(Less 1W)				
Denent Lanction		 VESA Wall Mount(Optional) 				
		Built-in Power Supply				
Dower Supply		•AC 100~240, 50/60 Hz, 0.7A				
Power Supply		Consumption Max 40W				
Operating Environme	ent	Temperature 0℃~25℃, Humidity Less 90%				
Dimension(WxDxH)		426 mm x 193 mm x 406mm				
Set Weight(Net)	ORATORY AC	5.0Kg)/TAT/				

3.2 Submitted Documents

N/A



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4. Measurement Conditions

Operating voltage of the EUT is supplied from AC Line.

The rating is AC 120V/ 60Hz at input.

4.1 Modes of Operation

The EUT was in the following operating mode during all testing.

The EUT is connected to PC by VGA cable and DVI cable.

The EUT is tested in the mode of "H" on the screen and played windows media player.

4.2 List of Peripherals

Equipment Manufacturer		Model Name	Serial No.
Keyboard(PS2)	YET FOUNDATE LTD.	SK-1688	C0509035688
Mouse(USB)	SUZHOU LOGITECH ELECTRONIC CO., LTD.	M-BJ58	HCA54718469
PC	Samsung Electronics	ZMP35	X71498DX900234E



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4.3 Type of Used Cables

Equipment	Manufacturer	M/N	S/N	Cables &connectors
EUT (VGA cable for PC)	N/A	N/A	N/A	1.5m shielded VGA cable
EUT (DVI for PC)	N/A	N/A	N/A	1.5m shielded DVI cable
EUT (Audio Cable for PC)	N/A	N/A	N/A	1.2m shielded Audio cable
EUT(Power Cable for AC Line)	N/A	N/A	N/A	1.5m unshielded power cable
Keyboard (PS/2 cable for PC)	N/A	N/A	N/A	1.2m unshielded PS/2 cable
Mouse(USB cable for PC)	N/A	N/A TORY AC	CREDITA	1.5m shielded USB cable
PC(Power cable for AC Line)	N/A	N/A	N/A	1.5m unshielded power cable

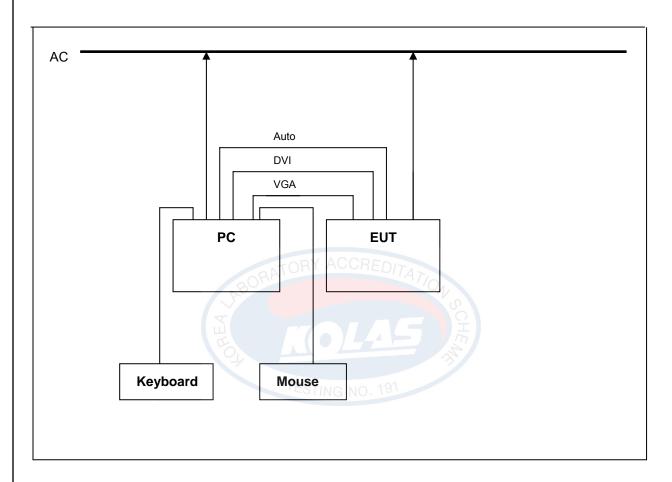


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4.4 Test Setup

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



[System Block Diagram of Test Configuration]



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4.5 Uncertainty

1) Radiated disturbances from 30 MHz to 1000 MHz at a distance of 3m and 10 m

Input quantity	Xi	Probability distribution function
Receiver reading	Vr	Rectangular √3
Attenuation: antenna-receiver	Lc	k=1
Amplifier Error	Ae	k=2
antenna factor	Lac	k=2
Receiver corrections:		
Sine wave voltage	dVsw	Rectangular √3
Pulse amplitude response	dVpa	Rectangular √3
Pulse repetition rete response	dVpr	Rectangular √3
Mismatch: antenna-receiver	dM	k=1
Antenna corrections:		
AF frequency interpolation	dAFf	Rectangular √3
AF height deviations	dAFh	Rectangular √3
Directivity difference	dAdir	3 m: Rectangular √3, 10 m: Rectangular √3
Phase centre location	dAph	3 m: Rectangular √3, 10 m: Rectangular √3
Cross-polarisation	dAcp	Rectangular √3
Balance	dAbal	Rectangular √3
Site corrections:		· ·
Site imperfections	dSA	Rectangular √6
Separation distance	dd	3 m: Rectangular $\sqrt{3}$, 10 m: Rectangular $\sqrt{3}$
Table height	dh	3 m: k=2, 10 m: k=2
Expanded Uncertainty		4.60(Vertical)/4.59(Horizontal) k=2
Expanded Oncertainty	TESTINGN	(Level of confidence)

Expanded Uncertainty

U = k * Uc(xi) = 2 * 2.3 = 4.60dB

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

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

Input quantity	Xi	Probability distribution function
Receiver reading	Vr	Rectangular √3
Attenuation: AMN-receiver	Lc	k=1
AMN voltage division factor	Lamn	k=2
Receiver corrections:		
Sine wave voltage	dVsw	Rectangular √3
Pulse amplitude response	dVpa	Rectangular √3
Pulse repetition rate response	dVpr	Rectangular √3
Mismatch: AMN-receiver	dM	U-shape √2
AMN impedance	dΖ	Triangular √6
Expanded Uncertainty		3.99 k=2 (Level of confidence)

Expanded uncertainty

U = k * Uc(xi) = 2 * 1.96 = 3.92dB

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



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5. EMISSION Test

5.1 Conducted Emissions

Result: PASS

The line-conducted facility is located inside a 2.6M x 3.6M x 7.0M 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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Table 2: Test Data, Conducted Disturbance (FRONTEK)

<Quasi-Peak>

Frequency (MHz)	Reading (dBuV)	Line	C/F (dB)	C/L (dB)	Actual (dBuV)	Limit (dBuV)	Margin (dB)
4.530	50.38	N	0.21	0.16	50.75	56.00	5.25
4.850	49.91	N	0.21	0.16	50.28	56.00	5.72
6.730	54.34	N	0.29	0.19	54.82	60.00	5.18
6.795	54.56	N	0.29	0.19	55.04	60.00	4.96
6.860	54.39	N	0.29	0.19	54.87	60.00	5.13
6.925	53.94	N	0.29	0.19	54.42	60.00	5.58

<Average>

Frequency (MHz)	Reading (dBuV)	Line	C/F (dB)	C/L (dB)	Actual (dBuV)	Limit (dBuV)	Margin (dB)
6.600	46.16	N	0.29	0.19	46.64	50.00	3.36
6.665	46.38	RN	0.29	0.19	46.86	50.00	3.14
6.730	47.83	N	0.29	0.19	48.31	50.00	1.69
6.795	47.27 🔻	N	0.29	0.19	47.75	50.00	2.25
6.860	47.15	N	0.29	0.19	47.63	50.00	2.37
6.925	46.75	N	0.29	0.19	47.23	50.00	2.77

TESTING NO. 19"

▶ NOTE

- * C/F = Correction Factor
- * C/L = Cable Loss
- * LINE : L = Line-PE, N = Neutral-PE
- * Margin Calculation Margin(Q.P) = Limit - Actual [Actual(Q.P)= Reading(Q.P) + C/F + C/L]



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Figure 1: Spectral Diagram, LINE – PE (FRONTEK)

SK TECH Co., Ltd.

CONDUCTED DISTURBANCE

U90A

Manuf: Op Cond:

AC 120 V / 60 Hz

Operator: Test Spec:

FCC Part15 Subpart B

Comment:

LINE-PE

Result File: 900af_I.dat : U90A (FCC)

(1 Range) Scan Settings Frequencies Start Stop 150kHz 30MHz

Receiver Settings IF BW Detector 10kHz PK+AV 20msec

M-Time Preamp Atten Auto

OpRge

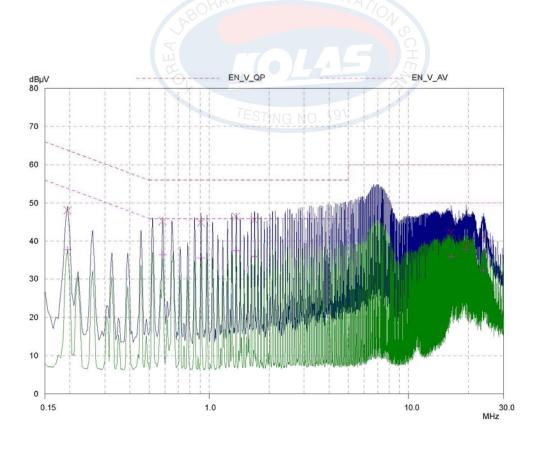
60dB

Final Measurement:

X QP / + AV Detectors: Meas Time: 1sec Peaks: 8 Acc Margin: 35 dB

Step

5kHz





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Figure 2: Spectral Diagram, NEUTRAL – PE (FRONTEK)

SK TECH Co., Ltd.
CONDUCTED DISTURBANCE

EUT: U90A

Manuf:

Op Cond: AC 120 V / 60 Hz

Operator: Test Spec:

Test Spec: FCC Part15 Subpart B
Comment: NEUTRAL-PE

Result File: 900af_n.dat : U90A (FCC)

Scan Settings (1 Range)



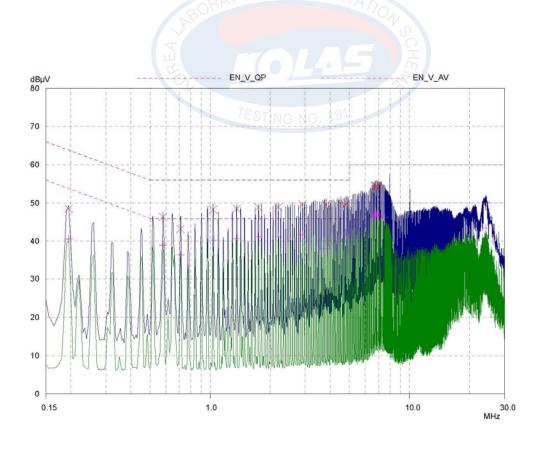
Final Measurement:

 Detectors:
 X QP / + AV

 Meas Time:
 1sec

 Peaks:
 8

 Acc Margin:
 35 dB





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Table 3: Test Data, Conducted Disturbance (LIEN CHANG)

<Quasi-Peak>

Frequency (MHz)	Reading (dBuV)	Line	C/F (dB)	C/L (dB)	Actual (dBuV)	Limit (dBuV)	Margin (dB)
0.185	42.54	N	0.12	0.01	42.67	64.26	21.59
0.195	47.76	N	0.12	0.01	47.89	63.82	15.93
0.200	46.19	L	0.13	0.02	46.34	63.61	17.27
0.520	35.62	L	0.13	0.04	35.79	56.00	20.21
2.465	36.89	L	0.18	0.11	37.18	56.00	18.82
4.110	34.27	L	0.24	0.16	34.67	56.00	21.33

<Average>

Frequency (MHz)	Reading (dBuV)	Line	C/F (dB)	C/L (dB)	Actual (dBuV)	Limit (dBuV)	Margin (dB)
0.475	28.53	-01	0.13	0.04	28.70	46.43	17.73
0.520	31.59	RAID	0.13	0.04	31.76	46.00	14.24
0.525	28.88	N	0.12	0.04	29.04	46.00	16.96
2.465	32.92 🔻	N	0.15	0.11	33 .18	46.00	12.82
4.105	29.58	L	0.24	0.16	29.98	46.00	16.02
4.110	28.87	N	0.21	0.16	29.24	46.00	16.76

TESTING NO 191

▶ NOTE

- * C/F = Correction Factor
- * C/L = Cable Loss
- * LINE : L = Line-PE, N = Neutral-PE
- * Margin Calculation Margin(Q.P) = Limit - Actual [Actual(Q.P)= Reading(Q.P) + C/F + C/L]



Final Measurement:

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Figure 3: Spectral Diagram, LINE – PE (LIEN CHANG)

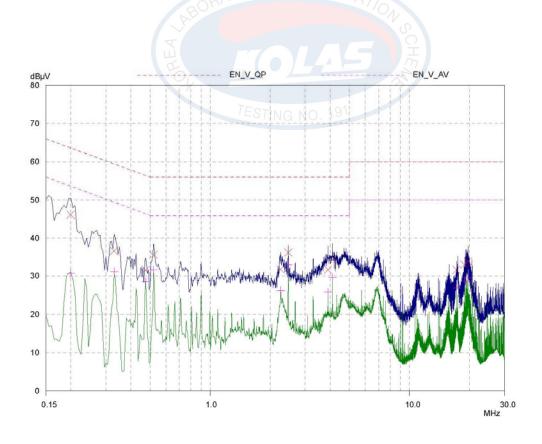
SK TECH Co., Ltd. 28 Oct 2006 11:08 CONDUCTED DISTURBANCE U90A Manuf: Op Cond: AC 120 V / 60 Hz Operator: Test Spec: FCC Part15 Subpart B LINE-PE Comment: LIEN CHANG Lips Result File: 900afl_I.dat : U90A (FCC)_LIEN Chang (1 Range) Scan Settings Frequencies Receiver Settings Start Stop Step IF BW Detector M-Time Preamp OpRge Atten 30MHz 60dB 150kHz 5kHz 10kHz PK+AV 20msec Auto

 Detectors:
 X QP / + AV

 Meas Time:
 1sec

 Peaks:
 8

 Acc Margin:
 35 dB





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Figure 4: Spectral Diagram, NEUTRAL – PE (LIEN CHANG)

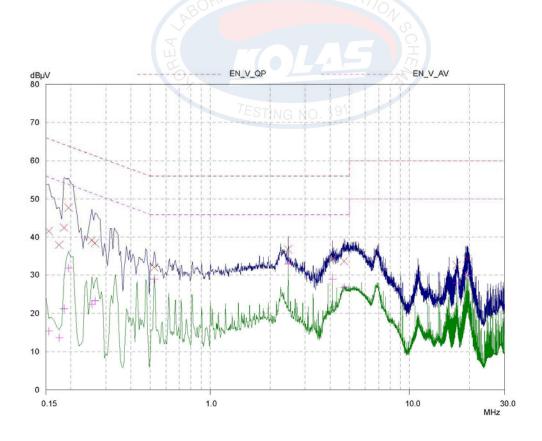
SK TECH Co., Ltd. 28 Oct 2006 10:50 CONDUCTED DISTURBANCE U90A Manuf: Op Cond: AC 120 V / 60 Hz Operator: Test Spec: FCC Part15 Subpart B NEUTRAL-PE Comment: LIEN CHANG Lips Result File: 900afl_n.dat : U90A (FCC)_LIEN Chang Scan Settings (1 Range) Frequencies Receiver Settings Start Stop Step IF BW Detector M-Time Preamp OpRge Atten 30MHz 60dB 150kHz 5kHz 10kHz PK+AV 20msec Auto

 Final Measurement:
 Detectors:
 X QP /+ AV

 Meas Time:
 1sec

 Peaks:
 8

 Acc Margin:
 35 dB





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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 Trilog-Broadband Antenna.

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 1×1.5 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 4: Test Data, Radiated Emissions

<FRONTEK>

Frequency	Pol.	Height	Real	Correction Factor		T-Fact	Data	Limits	Margin
[MHz]		[m]	Reading	Antenna	Cable	[dB]	[dBuV/m]	[dBuV/m]	[dB]
117.89	V	1.0	30.3	8.9	1.1	10.0	40.3	43.5	3.2
119.32	V	1.0	29.9	8.9	1.1	10.0	39.9	43.5	3.6
244.13	V	1.5	24.1	9.3	1.3	10.6	34.7	46.0	11.3
323.99	Н	2.2	18.9	12.9	1.5	14.4	33.3	46.0	12.7

Table. Radiated Measurements at 3-meters

<LIEN CHANG>

Frequency	Pol.	Height	Real	Correction Factor		T-Fact	Data	Limits	Margin
[MHz]		[m]	Reading	Antenna	Cable	[dB]	[dBuV/m]	[dBuV/m]	[dB]
324.00	Н	2.2	17.1	12.9	1.5	14.4	31.5	46.0	14.5
345.65	V	1.0	14.7	12.9	1.6	14.5	29.2	46.0	16.8
431.16	V	1.0	15.0	15.2	1.8	17.0	32.0	46.0	14.0
864.11	V	1.0	9.8	22.9	2.6	25.5	35.3	46.0	10.7

Table. Radiated Measurements at 3-meters

NOTES:

- 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 Fact (Antenna+Cable)
- 7. Margin = Limits Data