



ELECTROMAGNETIC RESEARCH INSTITUTE

EMI COMPLIANCE REPORT

Emission of electromagnetic disturbance

Test Report No. : ERI-FCC-0146
Equipment : 7"PORTABLE TFT LCD TV
Name of basic model : MM70TV
FCC ID : QEDMM70TV
Manufacturer : KAIROS TECHNOLOGY CO., LTD.
Applicant : KAIROS TECHNOLOGY CO., LTD.
Tested date : 2002.10.18
Issued date : 2002.10. 18
Received date of EUT:2002. 10. 15
Test results : PASS
Test Standards : FCC Part 15 Subpart C (FCC Part 15.239)
Test Procedure and Items :
- AC Power line Conducted emissions measurement : ANSI C63.4-1992
- Radiated emissions measurement : ANSI C63.4-1992

Tested by: SE-JIN, O

Approved by: SANG-KYU, LEE

The results in this report apply only to the sample tested.
This test report shall not be reproduced except in full, without the written approval of **ERI Laboratory**.

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1. CLIENT INFORMATION

The EUT has been tested by request of :

Company : KAIROS TECHNOLOGY CO., LTD.
Address : #201-901 TECHNO PARK, 192 YAKDAE-DONG, WONMI GU,
BUCHUN SI, GYUNGGI-DO, KOREA
Name of contact : James Kang
Telephone : +82-32-322-7851~2
Facsimile : +82-32-324-7853

2. LABORATORY INFORMATION

The 10m semi-anechoic chamber and/or EMC facilities are used for these testing.
These facilities were accredited by KOLAS, EK, MIC of Korea and FCC.

Address

ELECTROMAGNETIC RESEARCH INSTITUTE.
66-6, JEIL-RI, YANGJI-MYUN, YOUNGIN-CITY, KYUNGGI-DO, KOREA
Telephone No. : +82-31-336-1186~7
Facsimile No. : +82-31-336-1184

Registered No.

KOLAS : 111
EK : J
MIC : KR0030
FCC Filing No. : 302567

3. EQUIPMENT UNDER TEST INFORMATION(EUT)

3.1 Identification of the EUT

Type of equipment : 7"PORTABLE TFT LCD TV
Model name : MM70TV
Brand name : N/A
Manufacturer : KAIROS TECHNOLOGY CO., LTD.
Address : #201-901 TECHNO PARK, 192 YAKDAE-DONG, WONMI GU,
BUCHUN SI, GYUNGGI-DO, KOREA
Telephone : +82-32-322-7851~2
Facsimile : +82-32-324-7853
Country of origin : KOREA
Rating : DC 12V

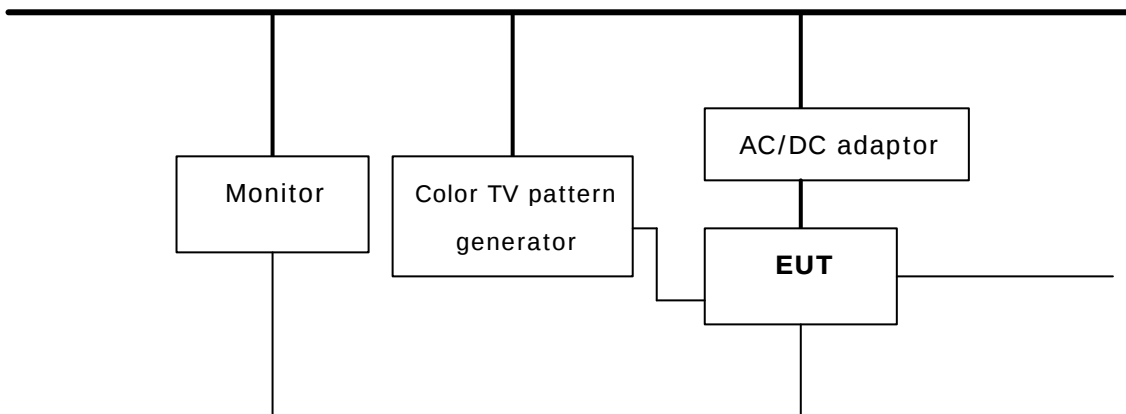
3.2 Additional information about the EUT

Family Models List: (N/A)

3.3 Peripheral equipment

Defined as equipment needed for correct operation of the EUT.

Description	Model No.	Manufacture	Serial No
Monitor	SMP-150	Samsung electronic Co., Ltd.	62YK205538
Color TV pattern generator	PM5418TDSI	Philips	LD642864
AC/DC adaptor	HPC-1210KA	KAIROS TECHNOLOGY CO., LTD.	N/A

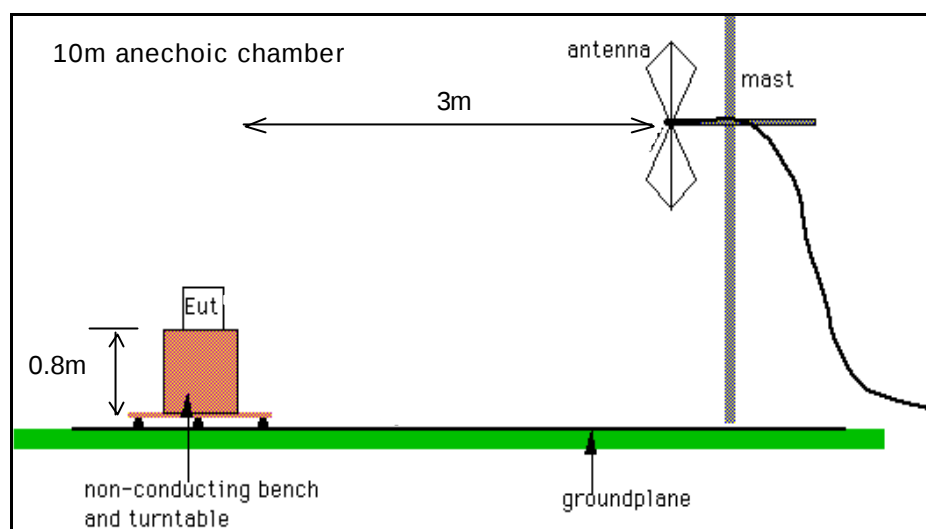
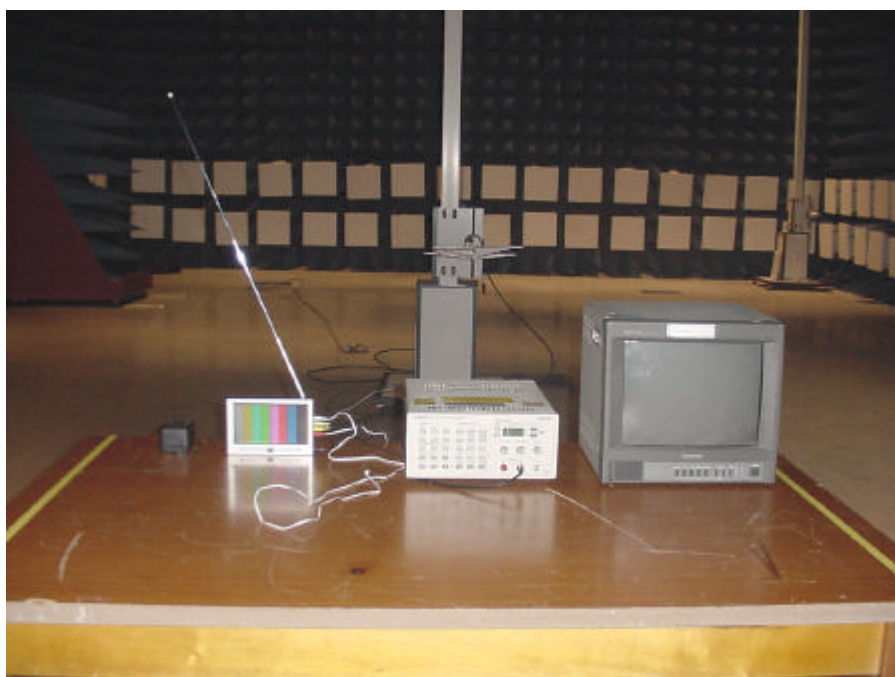


4. RADIATED DISTURBANCE : 30MHz - 1000MHz

4.1 Operating environment

Temperature : 24.0
Relative Humidity : 50.0 %

4.2 Test set-up



<General test set-up for radiated emissions>

4.3 Operating Conditions

During the test, we played EUT.

4.4 Test instrument

Instrument	Model No.	Serial No.	Makers	Next cal.date	Used
Test receiver	ESCS30	100022	R&S	2003. 3. 25	
L.I.S.N.	ESH3-Z5	827246/008	R&S	2003. 3. 12	
	ESH3-Z5	831887/018	R&S	2003. 3. 12	
Anechoic chamber	8 × 6 × 3.3m/H	-	Daetong shield	-	

4.5 Test results

<Radiated power output> *Reading : Peak

Tested Frequency	ANT Pol.	Meter Reading	Antenna Loss	Cable Loss	Results	Results	Margin
[MHz]		[A] [dBuV]	[B] [dB/m]	[C] [dB]	[A+B+C] [dBuV/m]	[uV/m]	[uV/m]
88.30	H	21.19	8.06	2.00	31.25	36.51	213.49
89.20	H	22.5	8.06	2.00	32.56	42.46	207.54
90.20	H	21.94	8.62	2.00	32.86	43.95	206.05

* Receiving Antenna Mode : **Horizontal, Vertical**

* <5 : mean less than 5dB

Note : Reading = Test Receiver meter, P= Polarization ≠ POL H = Horizontal POL V = Vertical A = Angle, AF = Antenna Factor CL = Cable Loss Result = Field Strength(AF + CL+ Reading)

<88.3MHz SPURIOUS RADIATION> *Reading : Peak

Tested Frequency	ANT Pol.	Meter Reading	Antenna Loss	Cable Loss	Results	Results
[MHz]		[A] [dBuV]	[B] [dB/m]	[C] [dB]	[A+B+C] [dBuV/m]	[uV/m]
63.8	V	13.61	8.19	1.60	23.4	14.79
88.30	H	21.19	8.06	2.00	31.25	36.51
131.3	H	8.35	13.86	2.20	24.41	16.61
239.3	H	5.64	16.9	3.00	25.54	18.92

* Receiving Antenna Mode : **Horizontal, Vertical**

* <5 : mean less than 5dB

Note : Reading = Test Receiver meter, P= Polarization ≠ POL H = Horizontal POL V = Vertical A = Angle, AF = Antenna Factor CL = Cable Loss Result = Field Strength(AF + CL+ Reading)



<89.2MHz SPURIOUS RADIATION> *Reading : Peak

Tested Frequency	ANT Pol.	Meter Reading	Antenna Loss	Cable Loss	Results	Results
		[A]	[B]	[C]	[A+B+C]	
[MHz]		[dBuV]	[dB/m]	[dB]	[dBuV/m]	[uV/m]
63.8	H	14.9	8.19	1.6	23.98	15.81
89.2	H	22.5	8.06	2.00	32.56	42.46
131.9	H	7.92	13.86	2.20	26.90	22.13
239.3	H	5.7	16.9	3.00	25.62	19.09

* Receiving Antenna Mode : **Horizontal, Vertical**

* <5 : mean less than 5dB

Note : Reading = Test Receiver meter, P= Polarization ≠ POL H = Horizontal POL V = Vertical A = Angle, AF = Antenna Factor CL = Cable Loss Result = Field Strength(AF + CL+ Reading)

<90.2MHz SPURIOUS RADIATION> * Reading : Peak

Tested Frequency	ANT Pol.	Meter Reading	Antenna Loss	Cable Loss	Results	Results
		[A]	[B]	[C]	[A+B+C]	
[MHz]		[dBuV]	[Db/m]	[dB]	[dBuV/m]	[uV/m]
90.2	H	21.94	8.62	2.00	32.86	43.95
131.6	H	8.41	13.86	2.20	24.47	16.73
179.2	H	6.34	15.9	2.5	24.74	17.25
239.3	H	6.28	16.90	3.00	26.18	20.37

* Receiving Antenna Mode : **Horizontal, Vertical**

* <5 : mean less than 5dB

Note : Reading = Test Receiver meter, P= Polarization ≠ POL H = Horizontal POL V = Vertical A = Angle, AF = Antenna Factor CL = Cable Loss Result = Field Strength(AF + CL+ Reading)

Result : Pass

The measured emissions level of the EUT have found the below of the specified limit.