ELECTROMAGNETIC EMISSION COMPLIANCE REPORT

Test report file number	**: E00NR-027**
Applicant	**: MAX MEDIA INC.**
Address	**: 327-14, Dangjung-Dong, Kunpo-City, Kyounggi-Do, 435-832, Korea**
Manufacturer	**: MAX MEDIA INC.**
Address	**: 327-14, Dangjung-Dong, Kunpo-City, Kyounggi-Do, 435-832, Korea**
Type of Equipment	**: 15.1" TFT LCD MONITOR (CLASS B COMPUTING DEVICE PERIPHERAL)**
FCC ID	**: PBF-MF151S**
Model / Type No.	**: MF151S**
Serial number	**: N/A**
Total page of Report	**: 13 pages (including this page)**
Date of Incoming	**: September 04, 2000**
Date of issuing	**: November 17, 2000**

SUMMARY

The equipment complies with the regulation; FCC PART 15 SUBPART B §15.101

This test report contains only the result of a single test of the sample supplied for the examination. It is not a general valid assessment of the features of the respective products of the mass-production

Prepared by: G. W. Lee/ Ass. Chief Engineer, EMC Dept., ONETECH Corp.

Reviewed by: Y. K. Kwon/ Chief Engineer, EMC Dept., ONETECH Corp.

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1. VERIFICATION OF COMPLIANCE

APPLICANT	: MAX MEDIA INC.
ADDRESS	: 327-14, Dangjung-Dong, Kunpo-City, Kyounggi-Do, 435-832, Korea
CONTACT PERSON	: Jeong-Hun, Kim / Engineering Manager
TELEPHONE NO	: 82-2-563-0999
FCC ID	: PBF-MF151S
MODEL NO/NAME	: MF151S
SERIAL NUMBER	: N/A
DATE	: November 17, 2000

DEVICE TYPE	Peripheral Device for Class B Computing Device - Unintentional Radiator
E.U.T. DESCRIPTION	15.1" TFT LCD MONITOR
THIS REPORT CONCERNS	ORIGINAL GRANT
MEASUREMENT PROCEDURES	ANSI C63.4/1992
TYPE OF EQUIPMENT TESTED	PRE-PRODUCTION
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	CERTIFICATION
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 §15.101 (Class B)
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	No
FINAL TEST WAS CONDUCTED ON	3 METER OPEN AREA TEST SITE

The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

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2. GENERAL INFORMATION

2.1 Product Description

The MAX MEDIA INC., Model MF151S (referred to as the EUT in this report) is a 15.1" TFT LCD MONITOR which is connected a computer. Product specification described herein was obtained from product data sheet or user's manual.

CHASSIS TYPE	Plastic
LIST OF EACH OSC. OR CRY. FREQ.(FREQ.>=1MHz)	14.318 MHz, 24.000MHz
POWER REQUIREMENT	DC12V, 3.5A from AC/DC Adapter
MAX RESOLUTION	XGA 1024 x 768 @ 75Hz
NUMBER OF LAYERS	4 Layers (Main B'd), 2 Layers (Power Jack B'd, Key Control B'd)
EXTERNAL CONNECTOR	VGA INPUT (15pin D-SUB), DC IN

Model Differences:

-. The difference(s) compared to the EUT is as follows: none

2.2 Related Submittal(s) / Grant(s)

Original submittal only

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2.3 Test System Details

The model numbers for all the equipments which were used in the tested system is:

Model	Manufacturer	FCC ID	Description	Connected to
MF151S	MAX MEDIA INC.	PBF-MF151S	15.1" TFT LCD MONITOR (EUT)	PC
F1650K	ILAN ELEC. LTD.	N/A	AC/DC ADAPTER	EUT
TC-PA1000	TAIIL MEDIA	LIZ-TCPA1000	PC	-
SKR-1032	SEJIN Elec.	GJJSKR-1032B	KEYBOARD	PC
OK-720	A4 TECH	DOC	MOUSE	PC
2225C	HP	DSI6XU2225	PRINTER	PC
020-0470	CARDINAL	GDE0196	MODEM	PC

2.4 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4/1992. Radiated testing was performed at a distance of 3 meters from EUT to the antenna.

2.5 Test Facility

The open area test site and conducted measurement facilities are located on at 426-1 Daessangryung-Ri, Chowol-Myun, Kwangju-Kun, Kyunggi-Do 464-080 Korea. Description details of test facilities were submitted to the Commission on January 12, 1999. (Registration Number: 92819)

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3. SYSTEM TEST CONFIGURATION

3.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
MAIN LOGIC B'D	MAX MEDIA INC.	MF151S	N/A
POWER JACK B'D	MAX MEDIA INC.	LAMP	N/A
KEY CONTROL BOARD	MAX MEDIA INC.	MF151S	N/A

3.2 EUT exercise Software

The windows program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. This program was included into HOST. Once loaded, this program sequentially exercises each system component in turn. The sequence used is: (1) series of H characters are printed on the monitor until the screen is completely full, (2) copy series of H characters to mass storage device (if one is used), (3) print series of H characters to printer. The complete cycle is repeated continuously.

3.3 Cable Description

	Power Cord Shielded (Y/N)	I/O cable Shielded (Y/N)	Length (M)
15.1" TFT LCD MONITOR (EUT)	N	N	1.2(P), 1.5(D)
AC/DC ADAPTER	N	N	1.5(P), 1.2(D)
PC	N	-	1.5(P)
KEYBOARD	N/A	Y	1.2 (D)
MOUSE	N/A	Y	1.2(D)
MODEM	N	Y	1.5(P), 1.5(D)
PRINTER	N	Y	1.5(P), 1.5 (D)

* The marked "(P)" means the Power Cable.

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3.4 Noise Suppression Parts on Cable

	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
15.1" TFT LCD MONITOR (EUT)	Y	BOTH END	Y	BOTH END
AC/DC ADAPTER	Y	EUT END	Y	EUT END
PC	-	-	-	-
KEYBOARD	Y	PC END	Y	PC END
MOUSE	N	N/A	Y	PC END
MODEM	N	N/A	Y	BOTH END
PRINTER	N	N/A	Y	BOTH END

3.5 Equipment Modifications

To achieve compliance to CLASS B levels, the following change(s) was made by ONETECH Corp. during compliance testing:

"There was no Modified items during EMI test"

3.6 Configuration of Test System

Line Conducted Test: The EUT was connected to AC/DC adapter and the adapter was connected to LISN. All supporting equipments were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.4/1992 7.2.3 to determine the worse operating conditions.

Radiated Emission Test: Preliminary radiated emission test was conducted using the procedure in ANSI C63.4/1992 8.3.1.1 to determine the worse operating conditions. Final radiated emission test was conducted at 3 meters open area test site.

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4. PRELIMINARY TEST

4.1 AC Power line Conducted Emission Test

During Preliminary Test, the following operating mode was investigated

Operation Mode	The Worse operating condition (Please check one only)
Resolution: 640x480	
Resolution: 800x600	
Resolution: 1024x768	X

4.2 Radiated Emission Test

During Preliminary Test, the following operating mode was investigated

Operation Mode	The Worse operating condition (Please check one only)
Resolution: 640x480	
Resolution: 800x600	
Resolution: 1024x768	X

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5. FINAL RESULT OF MEASURMENT

Preliminary test was done in normal operation mode. And the final measurement was selected for the maximized emission level

5.1 Conducted Emission Test

Humidity Level : 55 % Temperature : 22°C

Limits apply to : FCC CFR 47, PART 15, SUBPART B, SECTION 15.107

Type of Test : CLASS B

Result : PASSED BY -5.87 dB at 4.22 MHz

EUT : 15.1" TFT LCD MONITOR Date: September 18, 2000

Operating Condition : Resolution 1024X768 mode

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 9 kHz)

Power Line Conducted Emission			FCC CLASS B	
Frequency (MHz)	**Amplitude (dBuV)**	**Conductor**	**Limit (dBuV)**	**Margin (dB)**
4.22	42.13	NEUTRAL	48.00	-5.87
7.00	34.12	NEUTRAL	48.00	-13.88
10.70	30.67	NEUTRAL	48.00	-17.33
13.48	29.64	NEUTRAL	48.00	-18.36
17.53	26.87	NEUTRAL	48.00	-21.13
26.23	34.13	NEUTRAL	48.00	-13.87

Line Conducted Emission Tabulated Data

Measuring by: Seung Hyun, Nam / Test Engineer

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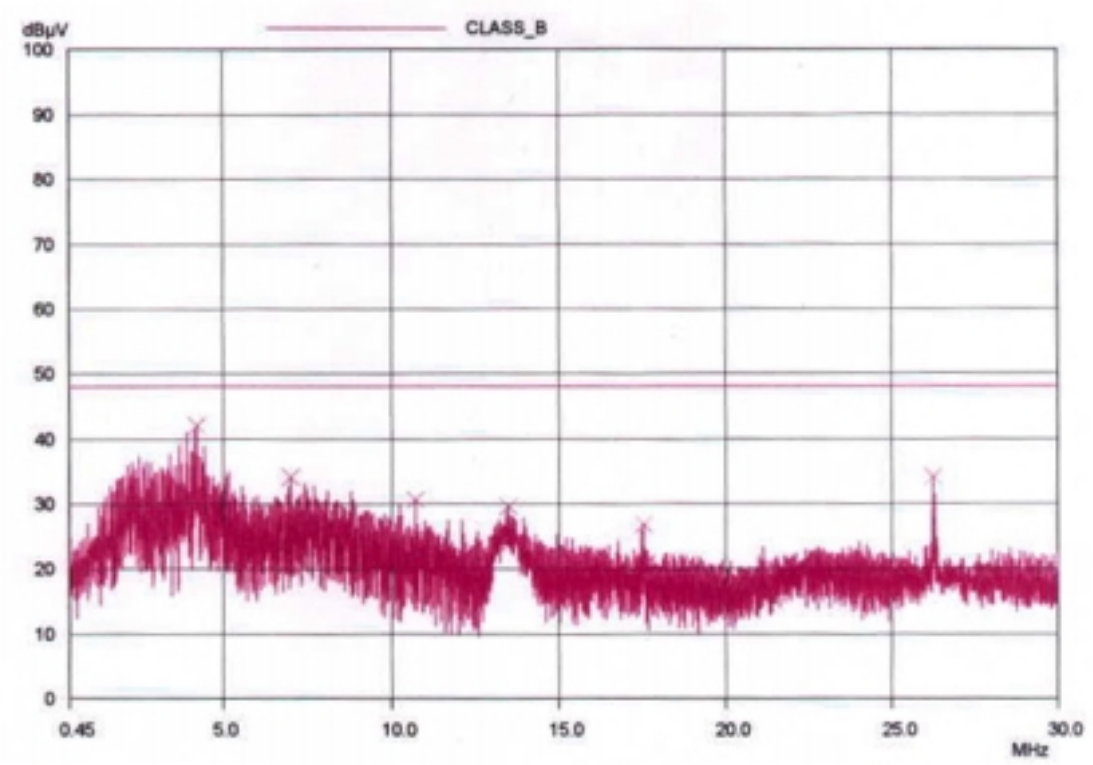
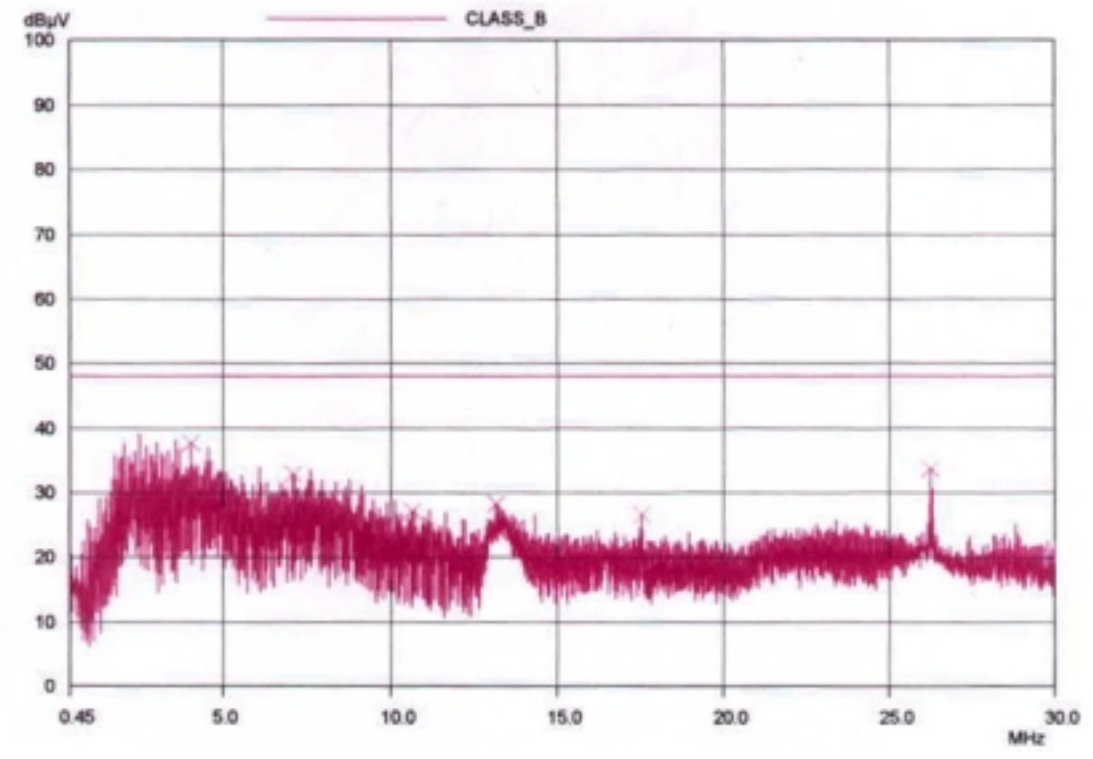


HOT LINE



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NEUTRAL LINE

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5.2 Radiated Emission Test

The following table shows the highest levels of radiated emission on both polarizations of horizontal and vertical.

Humidity Level : 56 % Temperature : 22 °C
Limits apply to : FCC CFR 47, PART 15, SUBPART B, SECTION 15.109
Type of Test : CLASS B
Result : PASSED BY –5.11 dB at 82.68 MHz

EUT : 15.1" TFT LCD MONITOR Date: October 28, 2000
Operating Condition : Resolution 1024X768 mode
Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)
Distance : 3 Meter

Radiated Emissions		Ant	Correction Factors		Total	FCC CLASS B	
Freq. (MHz)	Amp. (dBuV)	Pol.	Ant. (dBuV/m)	Cable (dB)	Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
55.12	18.10	V	10.77	0.98	29.85	40.00	-10.15
68.90	25.00	V	7.58	1.00	33.58	40.00	-6.42
75.80	20.60	V	6.30	1.00	27.90	40.00	-12.10
82.68	27.00	H	6.84	1.05	34.89	40.00	-5.11
89.56	25.94	V	8.38	1.10	35.42	43.50	-8.08
117.17	18.40	V	13.13	1.22	32.75	43.50	-10.75
124.00	18.30	V	13.20	1.25	32.75	43.50	-10.75
137.80	19.50	V	12.73	1.30	33.53	43.50	-9.97
172.26	18.39	H	15.34	1.43	35.16	43.50	-8.34
186.08	13.50	V	16.27	1.48	31.25	43.50	-12.25
206.60	21.50	H	11.64	1.60	34.74	43.50	-8.76
220.40	18.40	H	11.87	1.68	31.95	46.00	-14.05
227.40	20.40	H	11.99	1.71	34.10	46.00	-11.90
241.20	25.30	H	12.22	1.78	39.30	46.00	-6.70
248.00	17.90	H	12.34	1.82	32.06	46.00	-13.94
255.00	17.20	H	12.72	1.84	31.76	46.00	-14.24
331.20	17.00	H	15.21	2.18	34.39	46.00	-11.61
379.40	17.40	H	15.56	2.40	35.36	46.00	-10.64
413.20	12.90	V	16.12	2.46	31.48	46.00	-14.52
447.60	13.40	V	16.88	2.54	32.82	46.00	-13.18

Radiated Emissions Tabulated Data

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Measuring by: Seung Hyun, Nam / Test Engineer

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6. FIELD STRENGTH CALCULATION

Meter readings are compared to the specification limit correcting for antenna and cable losses

+ Meter reading (dBuV)

+ Cable Loss (dB)

+ Antenna Factor (Loss) (dB/meter)

= Corrected Reading (dBuV/meter)

- Specification Limit (dBuV/meter)

= dB Relative to Spec (+/- dB)

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7. LIST OF TEST EQUIPMENT

No.	EQUIPMENTS	MFR.	MODEL	SER. NO.	LAST CAL	DUE CAL	USE
1.	Test receiver	R/S	ESVS 10	827864/005	SEP/00	12MONTH	■
2.	Test receiver	R/S	ESHS10	834467/007	APRIL/00	12MONTH	■
3.	Spectrum analyzer	HP	8568B	3026A0226	SEP/00	12MONTH	■
4.	RF preselector	HP	85685A	3107A01264	SEP/00	12MONTH	■
5.	Quasi-Peak Adapter	HP	85650A	3107A01542	SEP/00	12MONTH	■
6.	Dipole Antenna	EMCO	3121C	9107-745	JUN/00	12MONTH	
7.	Biconical antenna	EMCO	3104C	9109-4441 9109-4443 9109-4444	MAR/00	12MONTH	■
8.	Log Periodic antenna	EMCO	3146	9109-3213 9109-3214 9109-3217	MAR/00	12MONTH	■
9.	LISN	EMCO	3825/2	9109-1867 9109-1869	FEB/00	12MONTH	■
10.	RF Amplifier	HP	8447F	3113A04554	JUN/00	N/A	
11.	Spectrum Analyzer	HP	8591A	3131A02312	APR/00	12MONTH	
12.	Computer System Hard disk drive	HP	98581C 9153C	98543A CMC762Z9153	N/A N/A	N/A N/A	■ ■
13.	Plotter	HP	7475A	30052 22986	N/A	N/A	■
14.	Position Controller	EMCO	1090	9107-1038	N/A	N/A	■
15.	Turn Table	EMCO	1080-1.21	9109-1576	N/A	N/A	■
16.	Antenna Master	EMCO	1070-1	9109-1624	N/A	N/A	■

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