

EXHIBIT 4

Test Report

Test Report

ACS-F98042

APPLICATION FOR CERTIFICATION

On Behalf of
GES Singapore Pte Ltd.
LAVA LCD Monitor

Model : P615U

Prepared for : GES Singapore Pte Ltd.
28 Marsiling Lane, Singapore 739152

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6 Ke Feng Rd., 52 Block,
Shenzhen Science & Industrial Park,
Nantou, Shenzhen, Guangdong, China

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Report Number : ACS-F98042
Date of Test : Nov. 23 / 24, 1998
Date of Report : Nov. 30, 1998

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TOK98-F067

TEST REPORT CERTIFICATION

Applicant : GES Singapore Pte Ltd.
 Manufacturer : GES Singapore Pte Ltd.
 EUT Description : LAVA LCD Monitor
 (A) MODEL NO. : P615U
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : 120V / 60Hz

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B Class B October 1997 & FCC / ANSI C63.4-1992

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart Class B limits both radiated and conducted emissions.

The measurement results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Date of Test :

Nov. 23 / 24, 1998

Prepared by :

Katherine Ge / Dec. 02
 (ASSISTANT: KATHERINE GE)

Reviewer :

Martin Lu 2/12
 (SUPERVISOR: MARTIN LU)

For and on behalf of
 AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Approve & Authorized Signer :

Alan Liao 3/20/98 substitute
 ** (MANAGER: LEON LIU) **
 Authorized Signature(s)

1. GENERAL INFORMATION

70K98-F067

1.1. Description of Device (EUT)

Description	:	LAVA LCD Monitor
Model Number	:	P615U
Applicant	:	GES Singapore Pte Ltd. 28 Marsiling Lane, Singapore 739152
Manufacturer	:	GES Singapore Pte Ltd. 28 Marsiling Lane, Singapore 739152
Video Cable	:	Shielded, Detachable, 1.8m (with ² ferrite cores)
USB Cable	:	Shielded, Detachable, 1.8m
Audio Cable	:	Unshielded, Detachable, 1.2m
AC/DC Adaptor	:	M/N: SPN-460-12 S/N: 83646012A01154 AC Input: 100 ~ 240V 50 ~ 60Hz 1.6A DC Output: 12V 4.3A AC Input Line: Unshielded, Detachable, 1.8m DC Output Line: Unshielded, Nondetachable, 1.2m (with core)
Date of Test	:	Nov. 23 / 24, 1998

1.2. Tested System Details

1.2.1. PERSONAL COMPUTER

Model Number	:	P2L97
Serial Number	:	No. 1
Manufacturer	:	Asus Computer International Co.
Switching Power Supply	:	Model FSP300-60GT Sparkle Power Int'l Ltd.
Floppy Driver	:	Teac Corp. Model FC-235HF
Hard Disk Driver	:	Quantum, Model 7218A2C
Disk Ctrl Card	:	Within Mother Board
Serial/Parallel Card	:	Within Mother Board
Power Cord	:	Unshielded, Detachable, 1.8m
FCC Certification	:	DOC

1.2.2. KEYBOARD

Model Number	:	DFK171M
Serial Number	:	43902222
Manufacturer	:	Team Technology, Inc.
Data Cable	:	Shielded, Detachable, 1.5m
Power Adaptor	:	Team, Model DV-1215A
		Unshielded, Nondetachable, 1.8m
FCC ID	:	EF56A5 1200AT

1.2.3. PRINTER

Model Number	:	2225C+
Serial Number	:	2937S56660
FCC ID	:	DS16XU2225
Manufacturer	:	Hewlett Packard
Power Adapter	:	Hewlett Packard, Model 82241A
Power Cord	:	Unshielded, Nondetachable, 1.8m
Data Cable	:	Shielded, Detachable, 1.5m

1.2.4. MODEM # 1

Model Number	:	1200AT
Serial Number	:	AT 112153
FCC ID	:	EF56A5 1200AT
Manufacturer	:	Team Technology, Inc.
Data Cable	:	Shielded, Detachable, 1.5m
Power Adapter	:	Team, Model DV-1215A
		Nonshielded, Undetachable, 1.8m

1.2.5. MODEM # 2

Model Number	:	1200AT
Serial Number	:	AT 122257
FCC ID	:	EF56A5 1200AT
Manufacturer	:	Team Technology, Inc.
Data Cable	:	Shielded, Detachable, 1.5m
Power Adapter	:	Kaming, Model AD-09
		Unshielded, Nondetachable, 1.8m

1.2.6. MOUSE

Model Number	:	M-S34
Serial Number	:	LZA81403347
FCC ID	:	DZL211029
Manufacturer	:	LOGITECH
Data Cable	:	Unshielded, Nondetachable, 2.5m

1.2.7. VGA CARD

Model Number	:	DSV3365
Serial Number	:	E601604161
FCC ID	:	LUT-DSV3365

1.2.8. SOUND BLASTER CARD

Model Number	:	CT4170
Serial Number	:	T4170740782356
Manufacturer	:	Creative Labs Inc.
FCC Certification	:	DOC

1.2.9. GAMEPAD

Model Number	:	CTM1050
Serial Number	:	S1050830000437
Manufacturer	:	Creative Labs Inc.
Data Cable	:	Shielded, Nondetachable, 2.5m

1.3. Measurement Uncertainty

Radiation Uncertainty	:	Ur = $\pm$ 4.26 dB
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Conduction Uncertainty	:	Uc = $\pm$ 2.66 dB
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1.4. Description of Test Facility

Site Description	:	
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3m Anechoic Chamber	:	Certificated by FCC, U.S.A, Aug. 18, 1997
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3m & 10m Open Site	:	Certificated by FCC, U.S.A, Feb. 13, 1998
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EMC Lab.	:	Certificated by TUV Rheinland Taiwan Dec. 05, 1995
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	:	Certificated by COMMERCE, New Zealand May 19, 1997
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	:	Certificated by NEMKO, Norway Feb. 28, 1998
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Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd.
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Site Location	:	No. 6 Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China
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2. POWER LINE CONDUCTED MEASUREMENT

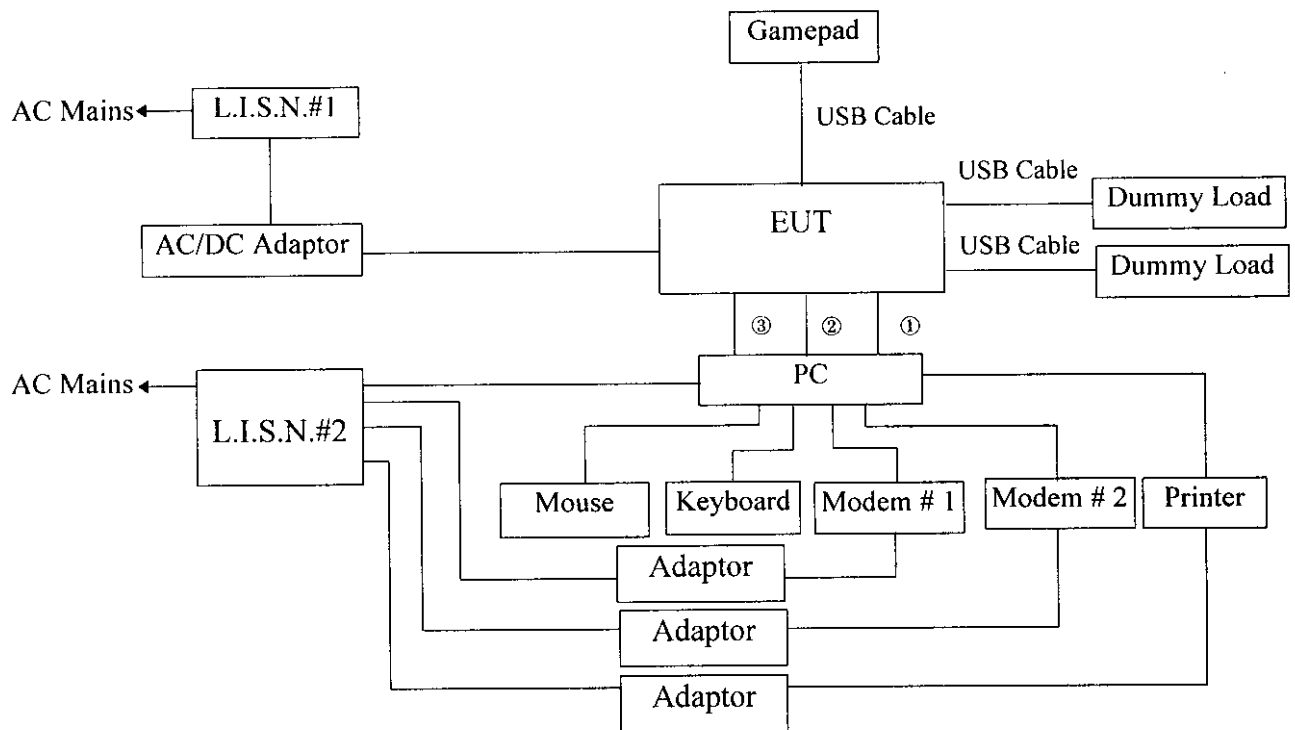
2.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS20	836600/006	Jun. 07, 98	1 Year
2.	L.I.S.N. # 1	Kyoritsu	KNW-407	8-541-4	Jun. 07, 98	1 Year
3.	L.I.S.N. # 2	EMCO	3825/2	9006-1660	Jun. 07, 98	1 Year

2.2. Block Diagram of Test Setup

2.2.1. Block diagram of connection between the EUT and simulators



Remark: ① is Audio Cable.

② is USB Cable.

③ is Video Cable.

(EUT: LAVA LCD Monitor)

2.3. Conducted Power Line Emission Limit

Frequency MHz	Maximum RF Line Voltage	
	μV	$\text{dB}(\mu\text{V})$
0.45 ~ 30.00	250	48

Remarks: RF LINE VOLTAGE $(\text{dB}(\mu\text{V})) = 20 \log \text{RF LINE VOLTAGE } (\mu\text{V})$

2.4. EUT Configuration on Measurement

The following equipments are installed on RF LINE VOLTAGE measurement to meet the Commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

2.4.1. LAVA LCD Monitor (EUT)

Model Number	:	P615U
Serial Number	:	N/A
Manufacturer	:	GES Singapore Pte Ltd.

2.4.2. Support Equipments

As in Section 1.2. Test System Details

2.5. Operating Condition of EUT

2.5.1. Setup the EUT and simulator as shown on Section 2.2.

2.5.2. Turn on the power of all equipments.

2.5.3. Personal Computer reads data from hard disk.

2.5.4. Personal Computer sends "H" character to Keyboard (EUT) and the screen will display and full with "H" pattern.

2.5.5. Personal Computer reads "H" character to printer, the printer will print "H" pattern on paper.

2.5.6. Personal Computer reads data from floppy disk and then writes data into floppy disk.

2.5.7. Personal Computer reads data from modem.

2.6. Test Procedure

The EUT is put on table which is 0.8m above the ground and away from other metallic surface at least 0.4m. The EUT is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm coupling impedance for the testing equipments. Please reference the block diagram of the test setup and photographs. Both sides of AC line(VA & VB) are checked for maximum conducted interference. In order to find the maximum emission levels, the relative positions of equipments and all of the interface cables must be changed according to FCC ANSI C63.4-1992 on conducted measurement.

The bandwidth of the test receiver (R & S ESHS20) is set at 10KHz. The frequency range from 450KHz to 30MHz is checked.

The disturbance voltage from the EUT are investigated and the data is reported in Section 2.7.. Please reference to Appendix I.

2.7. Line Conducted RF Voltage Measurement Results

PASS.

The frequency range from 450KHz to 30 MHz is investigated.

All emissions not reported below are too low against the prescribed limits.

Date of Test :	Nov. 24, 1998	Temperature :	27 °C
EUT :	LAVA LCD Monitor	Humidity :	42 %
Model No. :	P615U	Working Condition :	640*480 31.5KHz
Test Engineer :	Bright Xie		

Frequency MHz	Reading		Limit dB(μV)
	Phase VA dB(μV)	Phase VB dB(μV)	
0.495	41.1	40.7	48
0.558	40.4	40.2	48
0.681	41.0	40.9	48
0.805	39.8	40.3	48
1.547	*	34.4	48
1.858	33.8	*	48
21.972	25.8	*	48
22.193	*	26.5	48

Remark :

1. All readings are Quasi-Peak values.
2. The worst emission is detected at 0.495MHz with corrected signal level of 41.1 dB(μV) (limit is 48 dB(μV)) when the VA side of the EUT is connected to L.I.S.N.

Reviewer : *Martin Lu 2/12*

Date of Test : Nov. 24, 1998 Temperature : 27 °C
 EUT : LAVA LCD Monitor Humidity : 42 %
 Model No. : P615U Working Condition : 800*600 37.5KHz
 Test Engineer : Bright Xie

Frequency MHz	Reading		Limit dB(μV)
	Phase VA dB(μV)	Phase VB dB(μV)	
0.495	41.0	40.1	48
0.553	37.6	38.9	48
0.681	40.9	40.0	48
0.798	30.5	36.8	48
0.805	40.0	*	48
1.730	33.2	*	48
1.786	*	32.3	48
22.326	*	23.2	48
22.732	23.3	*	48

Remark : 1. All readings are Quasi-Peak values.
 2. The worst emission is detected at 0.495MHz with corrected signal level of 41.0 dB(μV) (limit is 48 dB(μV)) when the VA side of the EUT is connected to L.I.S.N.

Reviewer : *Martin ln 2/12*

Date of Test : Nov. 24, 1998 Temperature : 27 °C
 EUT : LAVA LCD Monitor Humidity : 42 %
 Model No. : P615U Working Condition : 1024*768 60KHz
 Test Engineer : Bright Xie

Frequency MHz	Reading		Limit dB(μV)
	Phase VA dB(μV)	Phase VB dB(μV)	
0.487	38.7	36.3	48
0.549	38.7	36.6	48
0.670	37.7	*	48
0.675	*	39.5	48
0.792	36.9	*	48
0.798	*	39.3	48
1.228	*	36.0	48
2.858	12.6	*	48
22.505	*	22.7	48
22.686	25.6	*	48

Remark : 1. All readings are Quasi-Peak values.
 2. The worst emission is detected at 0.675MHz with corrected signal level of 39.5dB(μV) (limit is 48 dB(μV)) when the VB side of the EUT is connected to L.I.S.N.

Reviewer : *Martin ln 2/12*

Tok98-7067

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

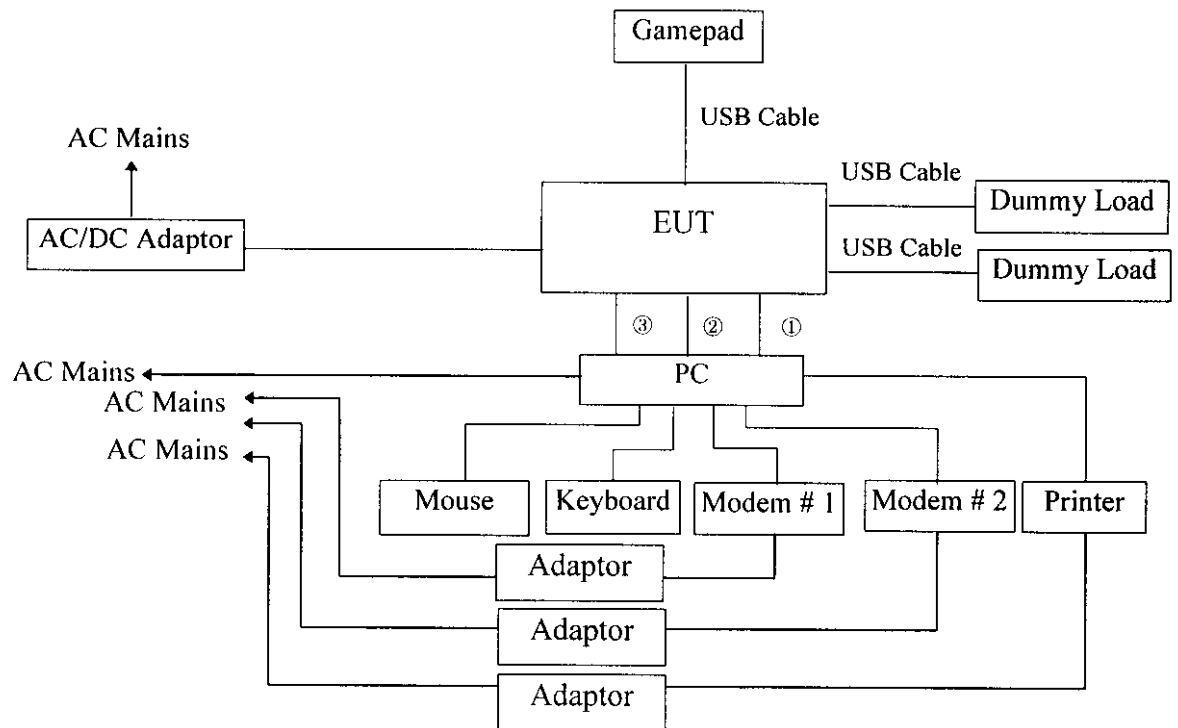
The following test equipments are used during the radiated emission measurement:

3.1.1. In Chamber # 3

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	HP	85422E	3625A00181	Jun. 07, 98	1 Year
2.	Amplifier	HP	8447D	2944A07794	Jun. 07, 98	1/2 Year
3.	Bilog Antenna	Chase	CBL6112A	2176	Sep. 27, 98	1 Year
4.	Computer	N/A	N/A	N/A	N/A	N/A
5.	Printer	NEC	P3800	568101448	N/A	N/A

3.2. Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and simulators



Remark: ① is Audio Cable.

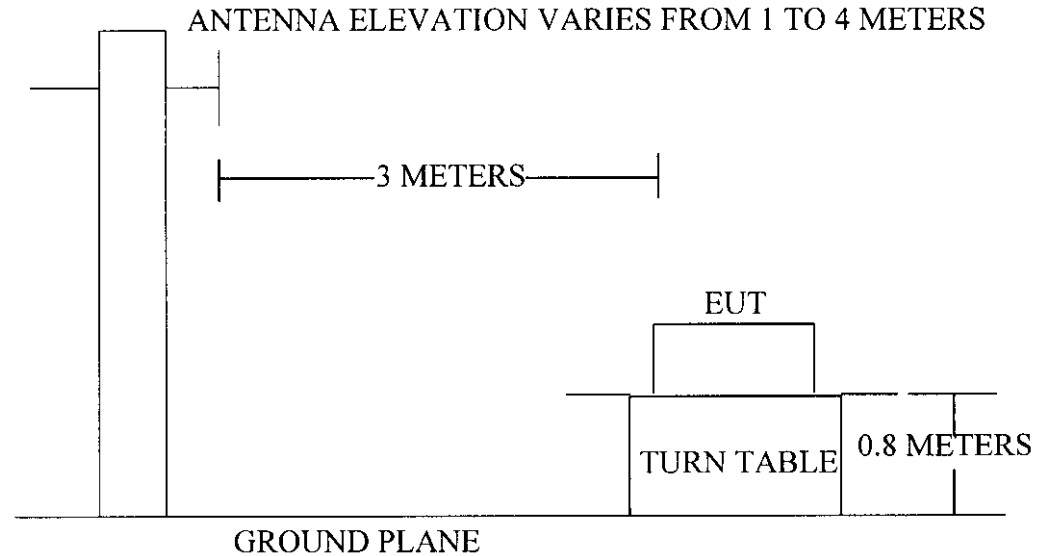
② is USB Cable.

③ is Video Cable.

(EUT: LAVA LCD Monitor)

3.2.2. Chamber # 3 Test Setup Diagram

ANTENNA TOWER



3.3. Radiation Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS dB(μ V)/m
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0

Remark : (1) Emission level (dB(μ V)/m) = 20 log Emission level (μ V/m)

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance refers to the distance in meters between the measuring instrument, antenna and the closed point of any part of the device or system.

3.4. EUT Configuration on Measurement

The configuration of EUT and its simulators are same as those used in conducted measurement. Please refer to Section 2.4.

3.5. Operating Condition of EUT

Same as conducted measurement which is listed in Section 2.5.

3.6. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) and dipole antenna are used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-1992 on radiated emission measurement.

The bandwidth of the test receiver (R & S ESVS 20) is set at 120KHz.

The frequency range from 30MHz to 1000MHz is checked.

The EUT are measured in the Chamber #3. All the test results are listed in Section 4.7. and all the scanning waveform are attached in Appendix II.

3.7. Radiated Emission Noise Measurement Results.

PASS.

The frequency range from 30MHz to 1000MHz is investigated. All the emission levels not reported below are too low against the Limit.

Date of Test	: Nov. 24, 1998	Temperature	: 27 °C
EUT	: LAVA LCD Monitor	Humidity	: 52%
Model No.	: P615U	Working Condition	: 640*480 31.5KHz
Test Engineer	: Bright Xie		

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Horizontal dB	Emission Level Horizontal dBμV/m	Limits dBμV/m	Limits Over dBμV/m
48.020	8.35	1.36	16.90	26.61	40.00	-13.39
72.011	6.45	1.69	23.50	31.65	40.00	-8.35
110.006	12.77	2.10	21.90	36.76	43.50	-6.74
136.013	12.14	2.35	22.70	37.19	43.50	-6.31
144.021	11.66	2.46	24.40	38.53	43.50	-4.97
149.996	11.19	2.48	25.40	39.07	43.50	-4.43
189.957	9.62	2.84	26.70	39.16	43.50	-4.34
292.550	13.49	3.57	18.20	35.26	46.00	-10.74
310.001	13.84	3.72	19.00	36.56	46.00	-9.44
384.150	16.17	4.21	9.80	30.18	46.00	-15.82
480.080	17.32	4.77	14.90	36.99	46.00	-9.01

Calculation: Emission Level = Antenna Factor + Cable Loss + Meter Reading

Reviewer : *Martin Lu 2/12*

Date of Test	: Nov. 24, 1998	Temperature	: 27 °C
EUT	: LAVA LCD Monitor	Humidity	: 52%
Model No.	: P615U	Working Condition	: 640*480 31.5KHz
Test Engineer	: Bright Xie		

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Vertical dB	Emission Level Vertical dBμV/m	Limits dBμV/m	Limits Over dBμV/m
50.026	4.65	1.39	53.54	32.64	40.00	-7.36
70.010	7.58	1.66	52.88	35.24	40.00	-4.76
110.005	12.22	2.10	51.07	38.62	43.50	-4.88
130.003	11.97	2.31	50.27	37.78	43.50	-5.72
144.975	10.01	2.49	49.52	35.30	43.50	-8.20
152.018	9.40	2.49	52.86	38.09	43.50	-5.41
168.028	9.24	2.63	53.73	38.97	43.50	-4.53
176.028	9.93	2.73	50.83	36.86	43.50	-6.64
192.031	7.88	2.85	52.95	37.13	43.50	-6.37
409.856	16.26	4.35	45.87	39.41	46.00	-6.59
480.050	17.70	4.77	42.33	37.37	46.00	-8.63

Calculation: Emission Level = Antenna Factor + Cable Loss + Meter Reading

Reviewer: *Martin Lu 2/12*

Date of Test	: Nov. 24, 1998	Temperature	: 27 °C
EUT	: LAVA LCD Monitor	Humidity	: 52%
Model No.	: P615U	Working Condition	: 800*600 37.5KHz
Test Engineer	: Bright Xie		

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Horizontal dB	Emission Level Horizontal dBμV/m	Limits dBμV/m	Limits Over dBμV/m
50.002	7.65	1.39	22.30	31.34	40.00	-0.866
70.002	6.08	1.66	24.70	32.45	40.00	-7.55
109.988	12.77	2.10	23.80	38.66	43.50	-4.84
129.996	12.50	2.31	24.20	39.01	43.50	-4.49
144.013	11.66	2.46	24.50	38.63	43.50	-4.87
150.003	11.19	2.48	24.80	38.47	43.50	-5.03
160.008	10.90	2.59	25.40	38.89	43.50	-4.61
184.028	9.73	2.78	22.20	34.71	43.50	-8.79
209.963	9.84	2.99	18.60	31.43	43.50	-12.07
260.100	13.12	3.36	11.60	28.08	46.00	-17.92
336.077	14.51	3.90	15.60	34.01	46.00	-11.99
384.050	16.17	4.21	19.40	39.78	46.00	-6.22
480.038	17.32	4.77	16.20	38.29	46.00	-7.71

Calculation: Emission Level = Antenna Factor + Cable Loss + Meter Reading

Reviewer: *Martin Lu 2/12*

Date of Test	: Nov. 24, 1998	Temperature	: 27 °C
EUT	: LAVA LCD Monitor	Humidity	: 52%
Model No.	: P615U	Working Condition	: 800*600 37.5KHz
Test Engineer	: Bright Xie		

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Vertical dB	Emission Level Vertical dBμV/m	Limits dBμV/m	Limits Over dBμV/m
50.007	4.65	1.39	29.30	35.34	40.00	-4.66
70.014	7.58	1.66	25.70	34.94	40.00	-5.06
110.020	12.22	2.10	24.20	38.52	43.50	-4.98
129.985	11.97	2.31	24.80	39.08	43.50	-4.42
136.015	11.01	2.35	25.40	38.76	43.50	-4.74
149.966	9.66	2.48	26.30	38.44	43.50	-5.06
168.031	9.24	2.63	26.50	38.37	43.50	-5.13
176.021	9.93	2.73	26.20	38.86	43.50	-4.64
192.029	7.88	2.85	25.80	36.53	43.50	-6.97
216.020	8.73	3.03	18.60	30.37	46.00	-15.63
309.979	14.00	3.70	19.80	37.50	46.00	-8.50
487.620	17.80	4.79	12.80	35.39	46.00	-10.61
587.150	16.97	5.41	12.20	34.58	46.00	-11.42

Calculation: Emission Level = Antenna Factor + Cable Loss + Meter Reading

Reviewer: *Martin* *11/2*

Date of Test	: Nov. 24, 1998	Temperature	: 27 °C
EUT	: LAVA LCD Monitor	Humidity	: 52%
Model No.	: P615U	Working Condition	: 1024*768 60KHz
Test Engineer	: Bright Xie		

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Horizontal dB	Emission Level Horizontal dBμV/m	Limits dBμV/m	Limits Over dBμV/m
48.817	7.96	1.37	17.70	27.03	40.00	-12.97
72.002	6.45	1.69	19.20	27.35	40.00	-12.65
100.017	12.05	2.02	16.70	30.77	43.50	-12.73
144.028	11.66	2.46	23.80	37.93	43.50	-5.57
146.377	11.28	2.50	24.70	38.47	43.50	-5.03
162.668	10.87	2.61	24.70	38.18	43.50	-5.32
178.756	10.08	2.76	24.10	36.94	43.50	-6.56
216.268	9.67	3.05	20.40	33.12	46.00	-12.88
227.570	10.63	3.11	24.50	38.24	46.00	-7.76
381.956	16.12	4.20	18.90	39.22	46.00	-6.78
432.081	16.87	4.51	13.20	34.58	46.00	-11.42
503.856	17.33	4.89	15.40	37.62	46.00	-8.38
601.490	18.61	5.39	11.10	35.10	46.00	-10.90

Calculation: Emission Level = Antenna Factor + Cable Loss + Meter Reading

Date of Test	:	Nov. 24, 1998	Temperature	:	27 °C
EUT	:	LAVA LCD Monitor	Humidity	:	52%
Model No.	:	P615U	Working Condition	:	1024*768 60KHz
Test Engineer	:	Bright Xie			

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Vertical dB	Emission Level Vertical dBμV/m	Limits dBμV/m	Limits Over dBμV/m
48.813	5.11	1.37	28.80	35.29	40.00	-4.71
72.008	7.58	1.69	26.20	35.47	40.00	-4.53
100.020	12.24	2.02	24.60	38.86	43.50	-4.64
130.120	11.97	2.31	23.10	37.38	43.50	-6.12
144.020	10.09	2.46	26.40	38.96	43.50	-4.54
152.015	9.40	2.49	27.20	39.09	43.50	-4.41
162.670	8.62	2.61	27.30	38.53	43.50	-4.97
168.025	9.24	2.63	26.90	38.77	43.50	-4.73
192.020	7.88	2.85	28.20	38.93	43.50	-4.57
216.025	8.81	3.05	20.40	32.26	46.00	-13.74
309.087	14.00	3.70	22.10	39.80	46.00	-6.20
398.208	15.97	4.30	18.50	38.77	46.00	-7.23
503.833	17.86	4.89	18.80	41.55	46.00	-4.45
601.420	17.06	5.38	16.60	39.03	46.00	-6.97

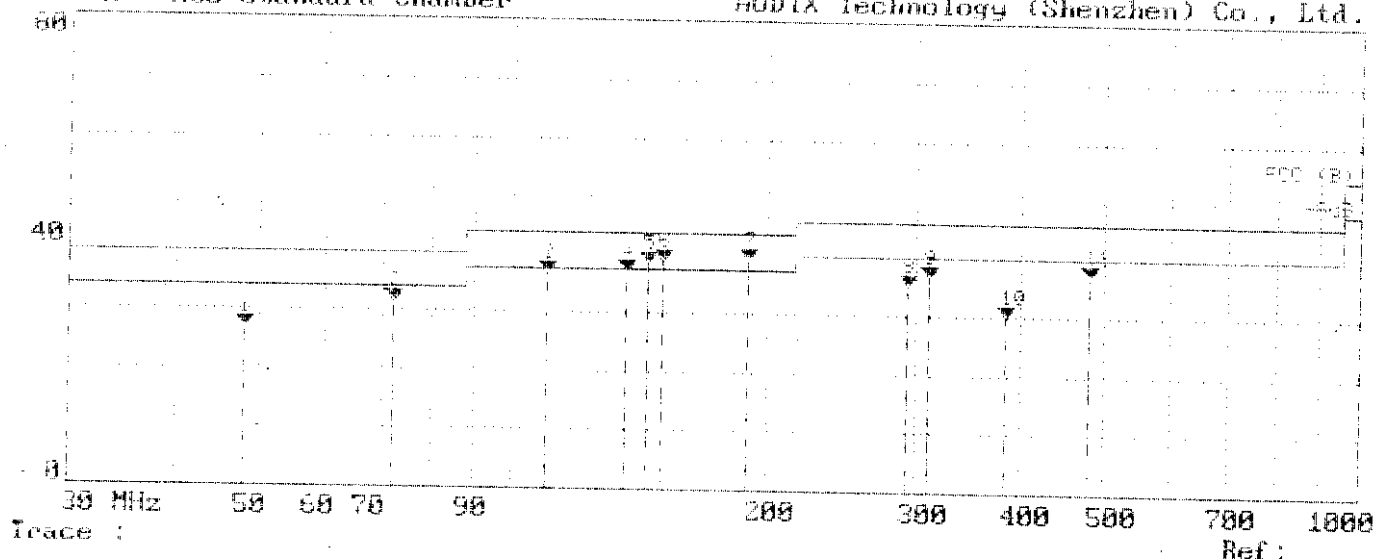
Calculation: Emission Level = Antenna Factor + Cable Loss + Meter Reading

Reviewer : Martin Lu 2/12

Data#: 85 File#: CES.EMI

Date: 11-24-1998 Time: 17:18:06
AUDIX Technology (Shenzhen) Co., Ltd.

dBuV/m ACS Standard Chamber



Trace :

Ref :

Limit : 40.00 dBuV/m
FCC : 38.00 dBuV/m
Max : 40.00
Min : 34.00
Power : 100W/30dB
Vmax : 100.000 V/1.00MHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
	MHz	dB	dB	dB	dB	dB	dB	dB	
1	47.020	25.61	-13.39	40.00	16.96	9.65	1.30	0.00	OP
2	72.041	31.88	-8.12	40.00	21.50	8.45	1.69	0.00	OP
3	110.006	36.78	-3.22	40.00	21.90	12.77	2.10	0.00	OP
4	110.017	37.19	-2.81	40.00	21.70	12.14	2.35	0.00	OP
5	144.021	38.57	-1.43	40.00	24.40	11.66	2.46	0.00	OP
6	148.996	38.07	-1.93	40.00	25.40	11.19	2.46	0.00	OP
7	169.957	38.16	-1.84	40.00	26.70	9.60	2.84	0.00	OP
8	181.350	37.06	-2.94	40.00	18.20	11.49	3.17	0.00	OP
9	310.001	36.85	-3.15	40.00	18.00	13.84	3.71	0.00	OP
10	304.150	30.13	-9.87	40.00	19.00	16.17	4.11	0.00	OP
11	486.600	36.99	-3.01	40.00	14.90	17.32	4.77	0.00	OP

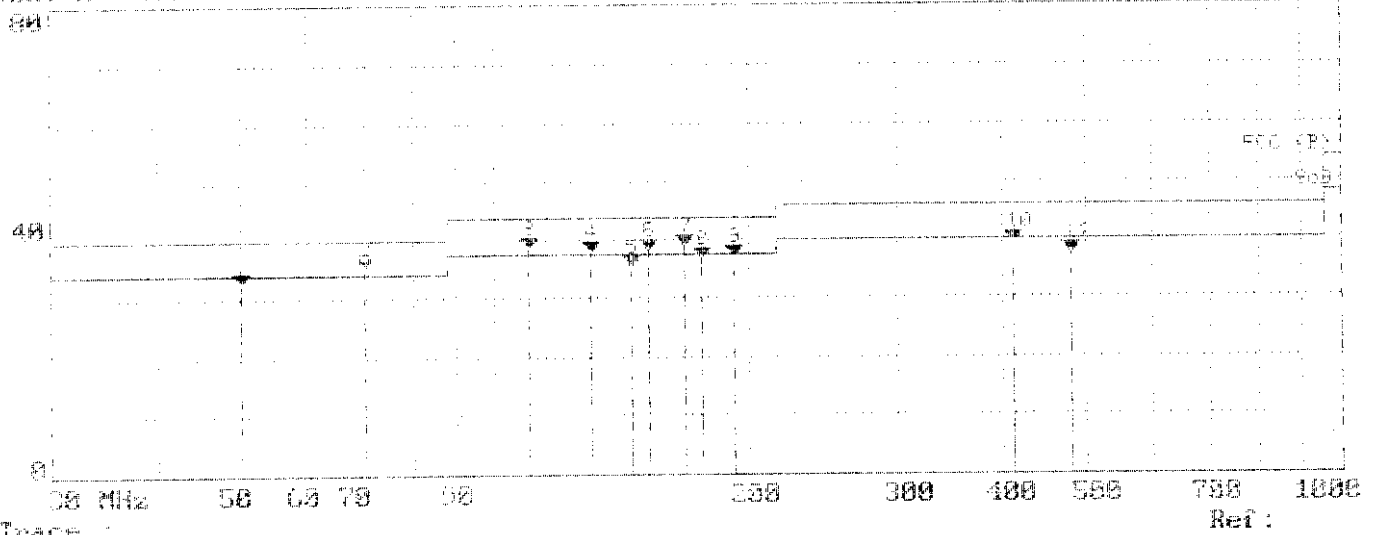
Data# 38

Title: CES-EM1

Date: 11-24-1998 Time: 16:58:26

ABU/n ACS Standard Chamber

AUBIX Technology (Shenzhen) Co., Ltd.

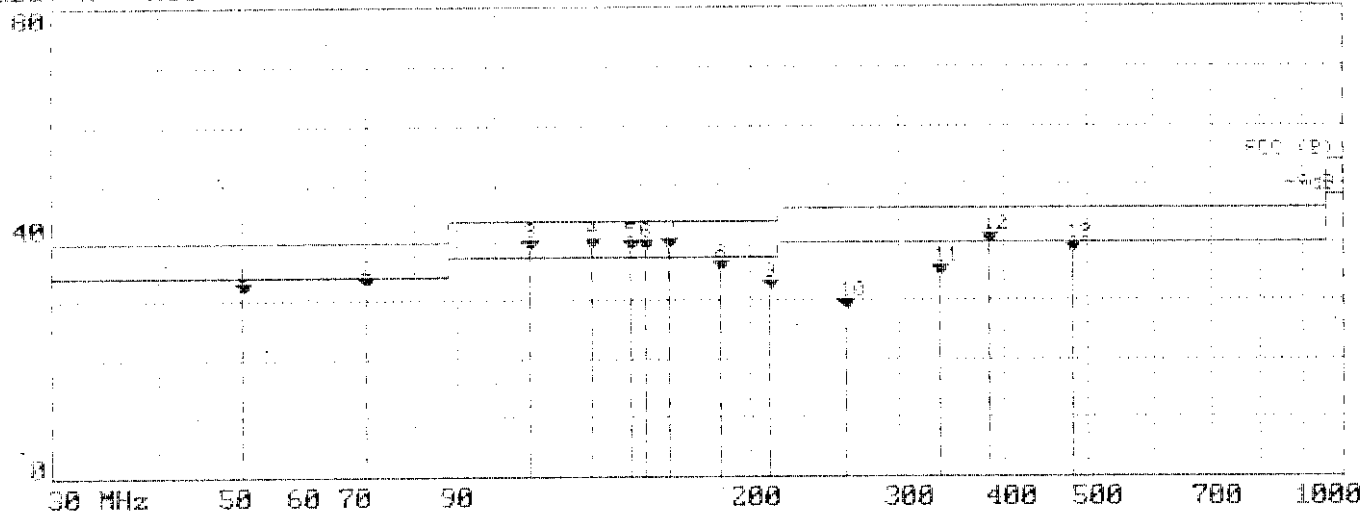


Page: 1

	Freq	Level	Over	Limit	Read	Perb-	Cable	Pre-amp	
	MHz	dB	Limit	dB	Level	Factor	Loss	Factor	Result
		dB	dB	dB	dB	dB	dB	dB	
1	50.000	37.64	7.36	40.00	53.54	4.65	1.39	26.94	GP
2	70.010	37.24	-4.76	40.00	51.50	3.58	1.66	26.58	GP
3	100.005	38.67	1.33	43.50	51.07	12.20	2.10	26.77	GP
4	130.001	37.71	5.72	43.50	50.27	11.07	2.31	26.77	GP
5	154.975	35.30	8.10	43.50	49.52	10.01	2.49	26.72	GP
6	177.010	38.09	5.41	43.50	50.40	9.40	2.49	26.66	GP
7	199.024	38.97	4.53	43.50	53.73	8.24	2.63	26.63	GP
8	176.038	38.36	-6.64	43.50	50.83	9.93	2.73	26.63	GP
9	192.031	37.13	-6.37	43.50	50.95	7.86	2.85	26.55	GP
10	205.856	39.71	-3.59	40.00	45.97	16.25	4.35	27.07	GP
11	480.050	37.37	8.63	40.00	42.32	17.70	4.77	27.43	GP

Data# : 86 File# : CES.EMI
 dBu/μV ACS Standard Chamber

Date: 11-24-1998 Time: 16:28:32
 AUDIX Technology (Shenzhen) Co., Ltd.



Trace 1

Ref:

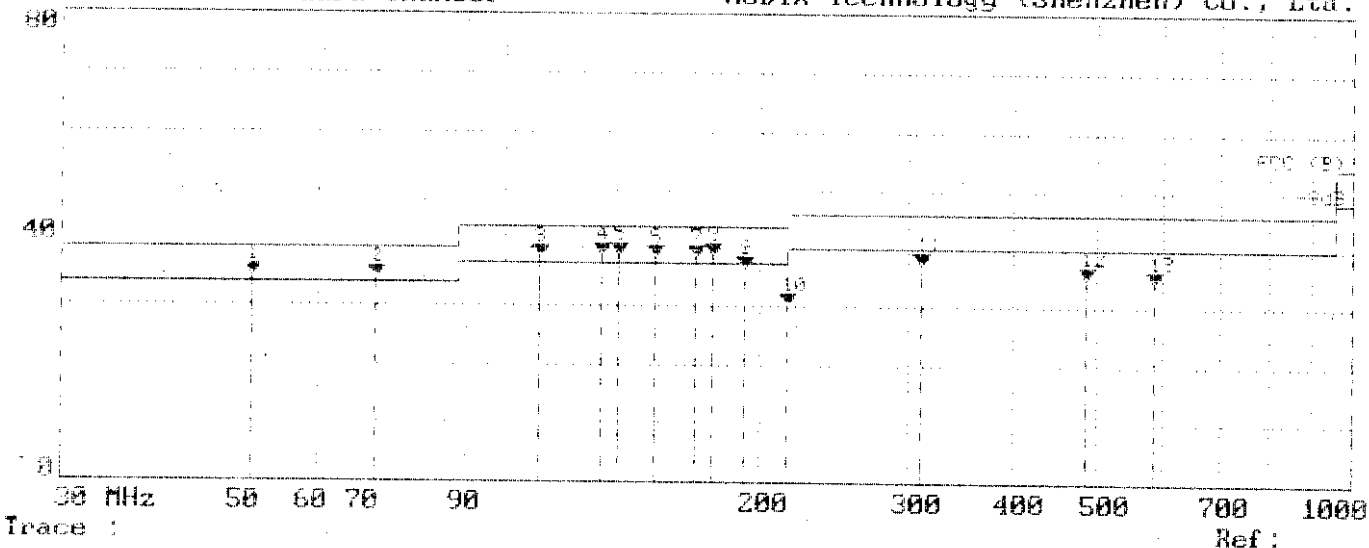
Limit : 100 dB
 Pulse : 1110 HORIZONTAL
 Margin : -0.01
 SW : 14V 110 V 10 V 100 150
 Power : 100W/100W
 Wm : 100W/100 10.0 Hz

Page: 1

	Freq	Level	Over	Limit	Lead	Probe	Cable	Preamp	Remark
	MHz	dB	dB	dB	dB	dB	dB	dB	
1	30.000	31.34	-4.66	40.00	1.30	7.65	1.34	0.00	OP
2	70.000	32.41	-3.59	40.00	14.70	6.30	1.66	0.00	OP
3	100.000	38.60	-4.40	43.50	25.60	12.77	2.10	0.00	OP
4	110.000	39.01	-3.99	43.50	24.10	12.50	2.21	0.00	OP
5	144.013	38.63	-4.87	43.50	24.50	11.66	2.46	0.00	OP
6	150.000	36.27	-5.73	43.50	24.30	11.19	2.40	0.00	OP
7	160.000	38.89	-4.61	43.50	25.40	10.90	2.59	0.00	OP
8	184.000	34.71	-5.79	43.50	22.20	9.70	2.76	0.00	OP
9	200.000	31.44	-12.07	43.50	18.60	9.84	2.99	0.00	OP
10	240.000	27.06	-17.94	46.00	11.50	11.12	3.26	0.00	OP
11	336.077	34.01	-11.99	46.00	15.60	14.51	3.90	0.00	OP
12	500.000	29.70	-6.30	46.00	10.40	10.17	4.21	0.00	OP
13	480.000	38.29	-3.71	46.00	16.20	17.32	4.77	0.00	OP

Data#: 87 File#: GES.EMI
 dBuV/m ACS Standard Chamber

Date: 11-24-1998 Time: 15:37:00
 AUDIX Technology (Shenzhen) Co., Ltd.

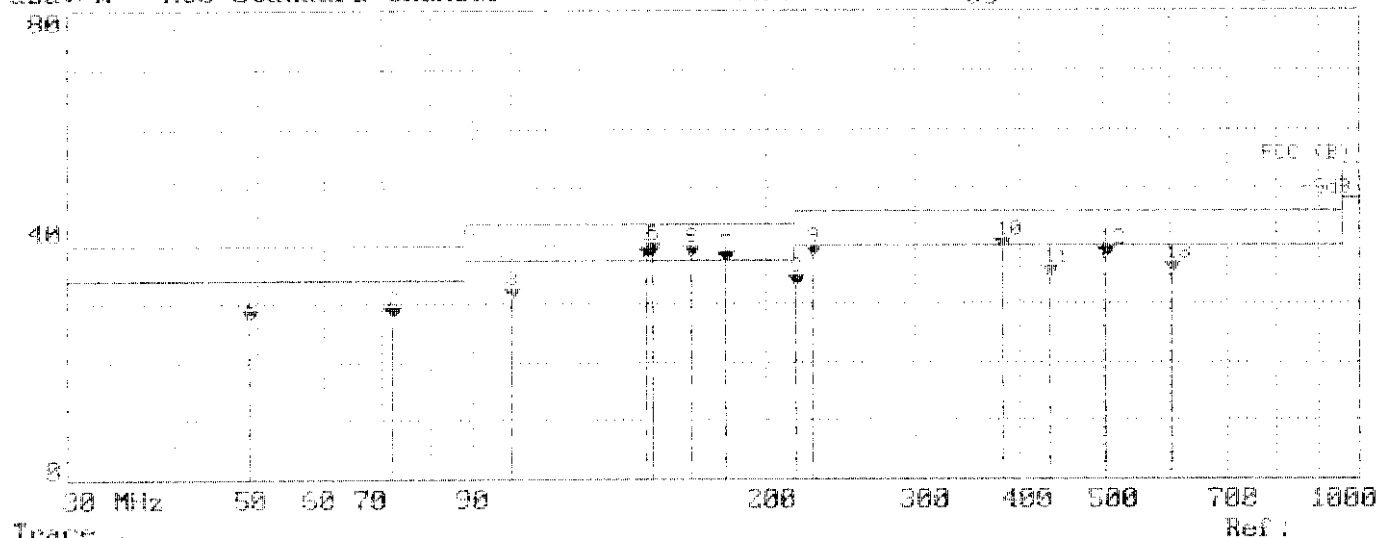


Page: 1

	freq	Level	Over Limit	Limit	Read Level	Probe Factor	Cable Loss	Preamplifier Factor	Remark
	MHz	dB	dB	dB	dB	dB	dB	dB	
1	40.0007	35.84	-4.06	40.00	29.30	4.61	1.39	0.00	QP
2	70.0014	34.94	-5.06	40.00	25.70	3.56	1.66	0.00	QP
3	100.0020	33.10	-4.90	40.00	24.20	12.22	0.10	0.00	QP
4	120.0005	33.00	-4.40	40.00	21.30	11.97	0.31	0.00	QP
5	116.0015	30.76	-4.74	40.00	25.40	11.01	0.35	0.00	QP
6	140.0006	30.41	-5.00	40.00	26.30	9.66	1.46	0.00	QP
7	160.0031	30.37	-5.13	40.00	26.50	9.24	0.66	0.00	QP
8	176.0011	30.86	-4.64	40.00	26.20	9.93	0.73	0.00	QP
9	180.0029	30.17	-5.87	40.00	25.80	7.00	0.35	0.00	QP
10	216.0030	30.27	-5.60	40.00	19.60	0.73	3.03	0.00	QP
11	300.0070	37.50	-4.50	40.00	19.80	14.00	1.70	0.00	QP
12	400.0020	25.00	-10.00	40.00	12.30	17.00	4.70	0.00	QP
13	500.0100	34.56	-11.40	40.00	11.20	16.97	5.41	0.00	QP

Data# : 85 File# : CES.EMI

Date: 11-24-1998 Time: 15:05:15
AUDIX Technology (Shenzhen) Co., Ltd.



Trace :
Limit : 500 (dB) / 2
Scale : 2176 HORIZONTAL
Margin : 4dB
DUT : LAVA LCD Mod. for XON:POWING
Power : 100V/60Hz
Y-axis : 101.4760 60KHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
	MHz	dB	dB	dB	dB	dB	dB	dB	
1	40.617	27.03	-11.97	40.00	17.70	7.96	1.37	0.00	QP
2	72.000	27.25	-12.65	40.00	19.20	6.45	1.60	0.00	QP
3	100.017	30.77	-9.73	40.50	16.70	12.05	2.02	0.00	QP
4	144.020	37.93	-5.57	40.50	23.60	11.66	2.46	0.00	QP
5	144.377	35.47	-5.03	40.50	24.70	11.26	2.50	0.00	QP
6	160.660	38.10	-5.20	40.50	24.70	10.27	2.61	0.00	QP
7	178.756	36.94	-6.56	40.50	24.10	10.08	2.76	0.00	QP
8	216.200	34.10	-10.60	40.00	20.40	9.67	3.05	0.00	QP
9	297.570	38.24	-7.76	40.00	24.50	10.63	3.11	0.00	QP
10	301.956	39.20	-6.76	40.00	18.90	16.12	4.20	0.00	QP
11	432.000	34.50	-11.40	40.00	13.20	16.87	4.51	0.00	QP
12	503.050	37.92	-8.08	40.00	15.40	17.32	4.89	0.00	QP
13	601.400	35.10	-10.90	40.00	11.10	18.61	5.39	0.00	QP

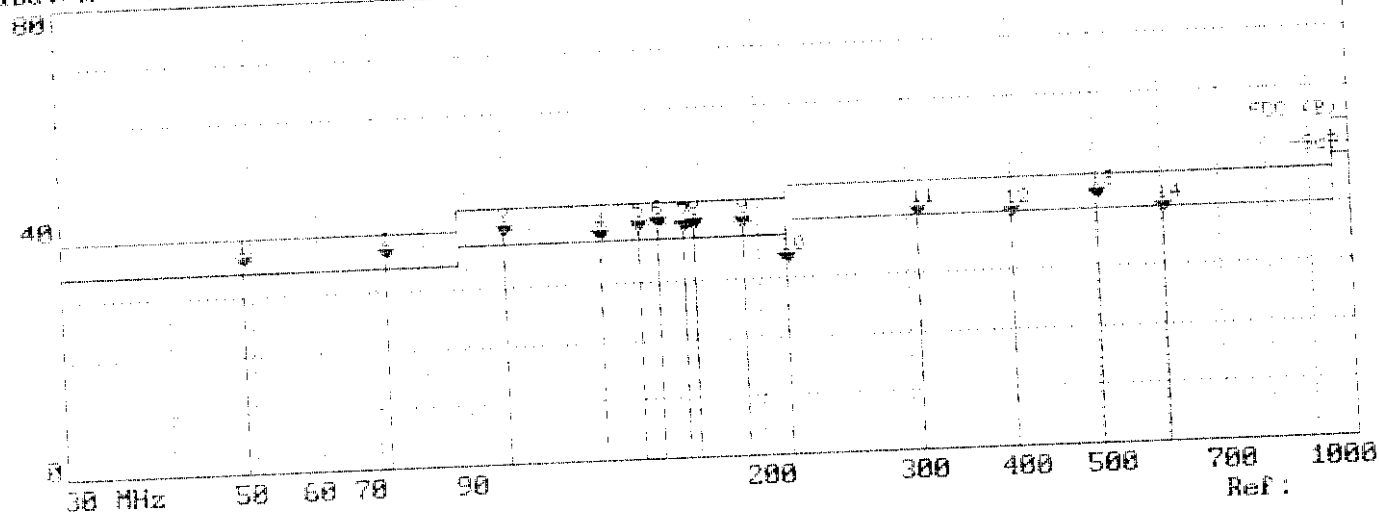
Data#: 84

File#: GES.EMI

Date: 11-24-1998 Time: 15:51:33

dBu/m ACS Standard Chamber

AUDIX Technology (Shenzhen) Co., Ltd.



Trace :

Limit : 100 (dB) LP

Probe : 2176 VERTICAL

Margin: -6dB

SFT : LA7A L12 M1 - 100 M N: P6150

Power : 120V/60Hz

Mew : 1024/768 60KHz

Page: 1

		Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	Remark
		MHz	dB	dB	dB	dB	dB	dB	dB	
1	:	48.413	35.29	-4.71	40.00	28.80	5.11	1.37	0.00	OP
2	:	72.000	33.47	-4.53	40.00	26.20	7.50	1.09	0.00	OP
3	:	100.000	38.04	-4.64	43.50	24.60	12.24	2.02	0.00	OP
4	:	120.110	37.36	-6.12	43.50	23.10	11.97	2.31	0.00	OP
5	:	144.000	36.96	-4.54	40.50	26.40	10.09	2.46	0.00	OP
6	:	180.015	39.09	-4.41	40.50	27.20	9.40	2.49	0.00	OP
7	:	162.671	38.55	-4.97	40.50	27.30	8.62	2.61	0.00	OP
8	:	160.025	38.77	-4.73	40.50	26.90	9.24	2.63	0.00	OP
9	:	192.020	32.91	-4.57	40.50	28.10	7.88	2.85	0.00	OP
10	:	216.015	32.16	-13.74	46.00	20.00	6.01	1.05	0.00	OP
11	:	239.007	39.80	-6.20	46.00	21.10	14.00	3.70	0.00	OP
12	:	300.000	36.77	-7.23	46.00	18.50	15.97	4.30	0.00	OP
13	:	300.000	41.55	-4.45	46.00	18.80	17.86	4.39	0.00	OP
14	:	601.440	37.02	-6.97	46.00	16.60	17.06	5.20	0.00	OP

FCC/MELLOW

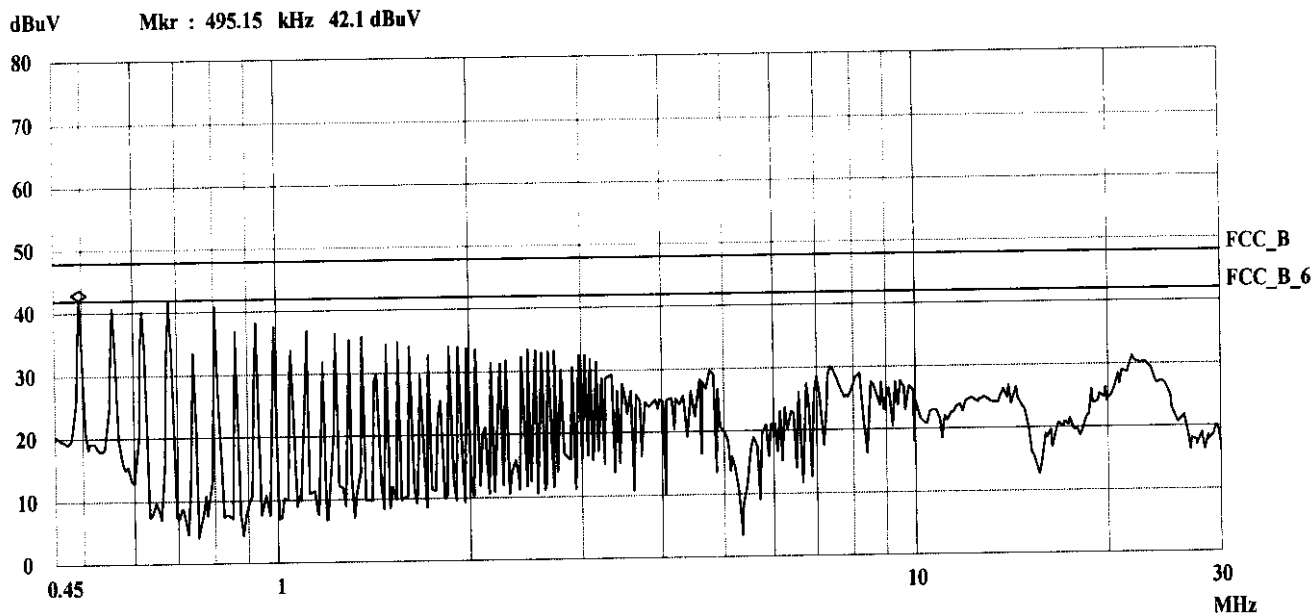
DEC 28 1998

APPENDIX I

Conduction Test FCC B

24. Nov 98 21:36

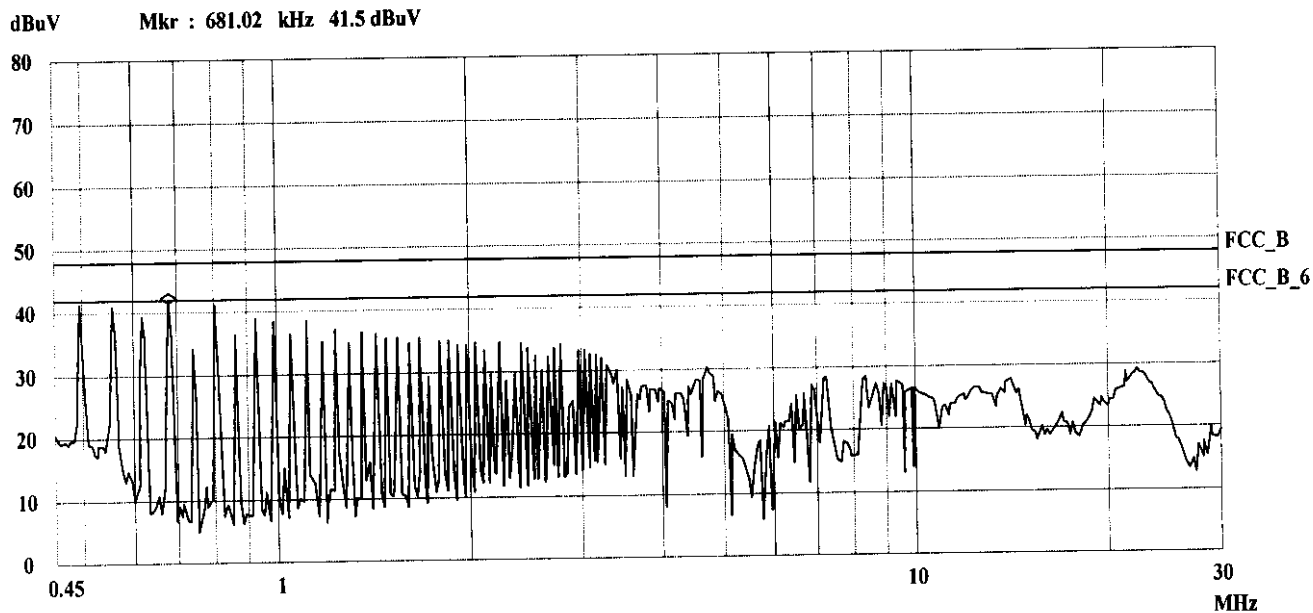
EUT: LAVA LCD Monitor M/N:P615U
Manuf: GES
Op Cond: 640*480 31.5KHz
Operator: Cherry
Test Spec: VA 120V/60Hz
Comment: Temp:27°C
Humi:42%



Conduction Test FCC B

24. Nov 98 21:39

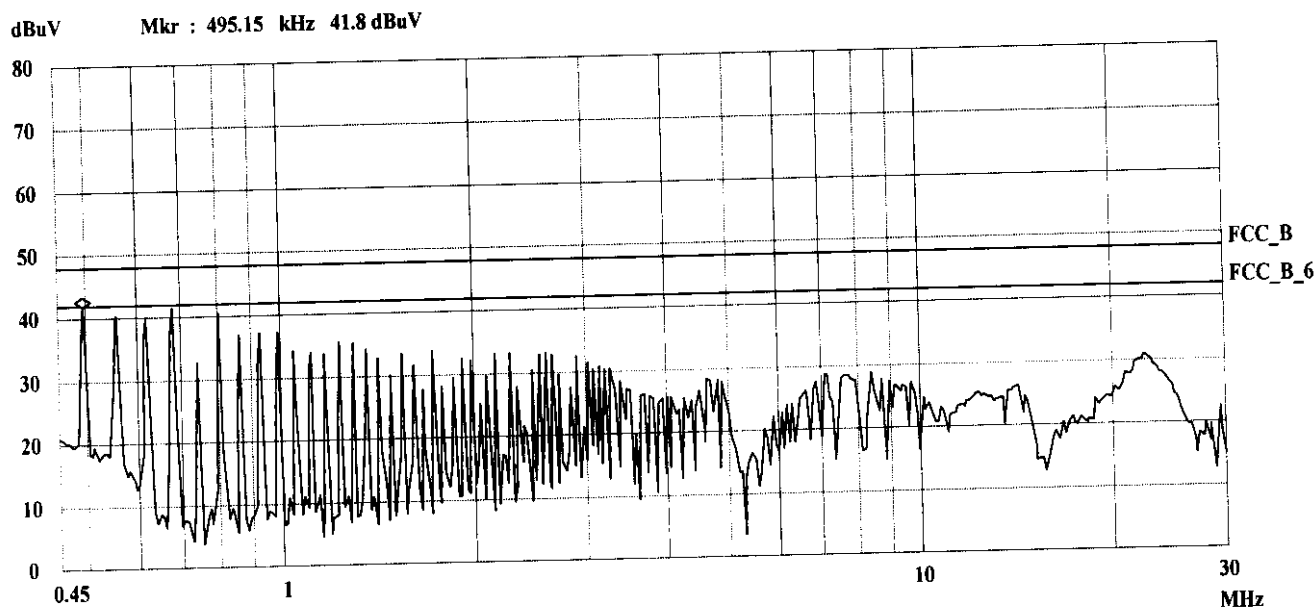
EUT: LAVA LCD Monitor M/N:P615U
Manuf: GES
Op Cond: 640*480 31.5KHz
Operator: Cherry
Test Spec: VB 120V/60Hz
Comment: Temp:27°C
Humi:42%



Conduction Test FCC B

24. Nov 98 21:33

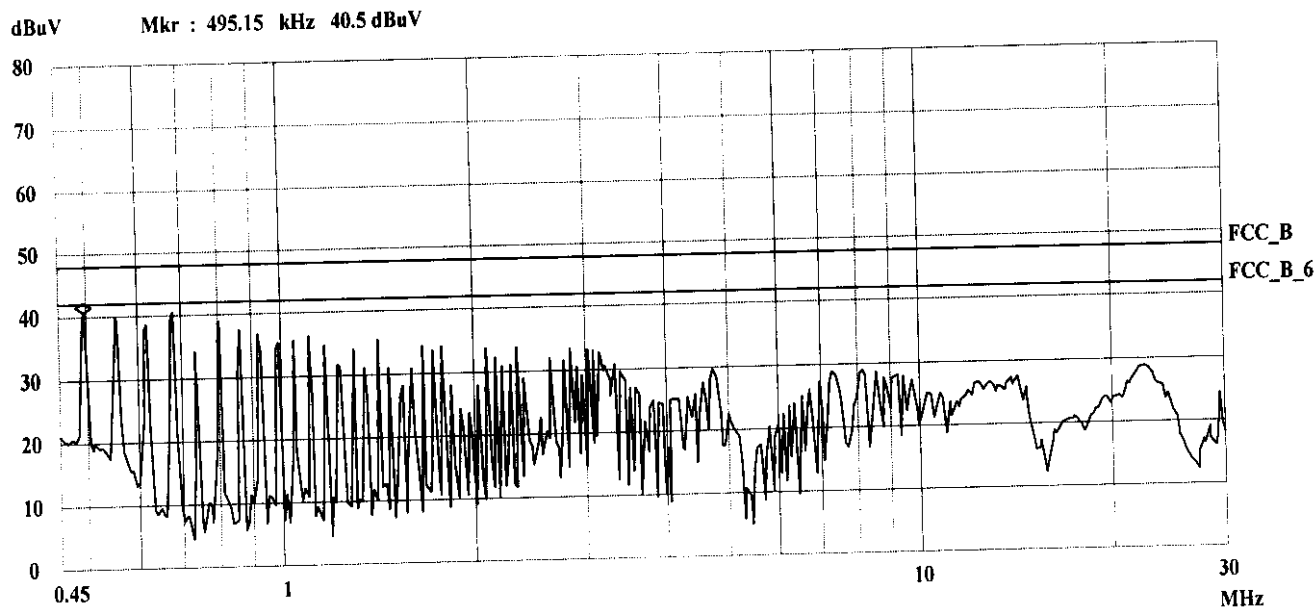
EUT: LAVA LCD Monitor M/N:P615U
Manuf: GES
Op Cond: 800*600 37.5KHz
Operator: Cherry
Test Spec: VA 120V/60Hz
Comment: Temp:27°C
Humi:42%



Conduction Test FCC B

24. Nov 98 21:30

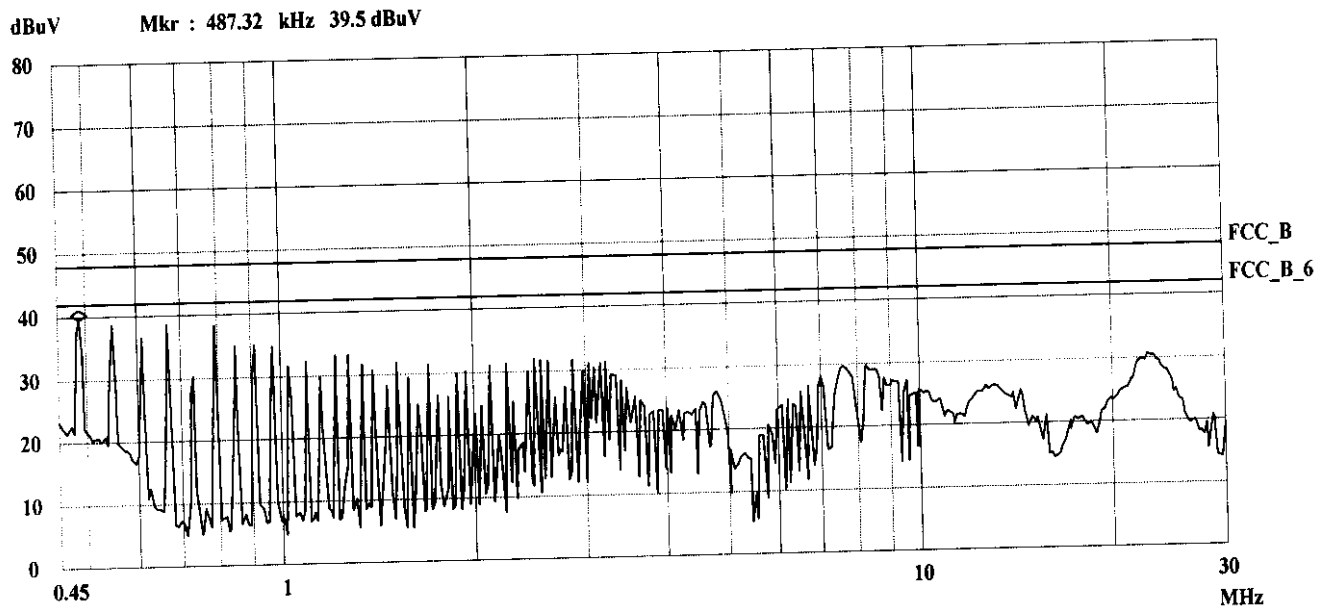
EUT: LAVA LCD Monitor M/N:P615U
Manuf: GES
Op Cond: 800*600 37.5KHz
Operator: Cherry
Test Spec: VB 120V/60Hz
Comment: Temp:27°C
Humi:42%



Conduction Test FCC B

24. Nov 98 21:15

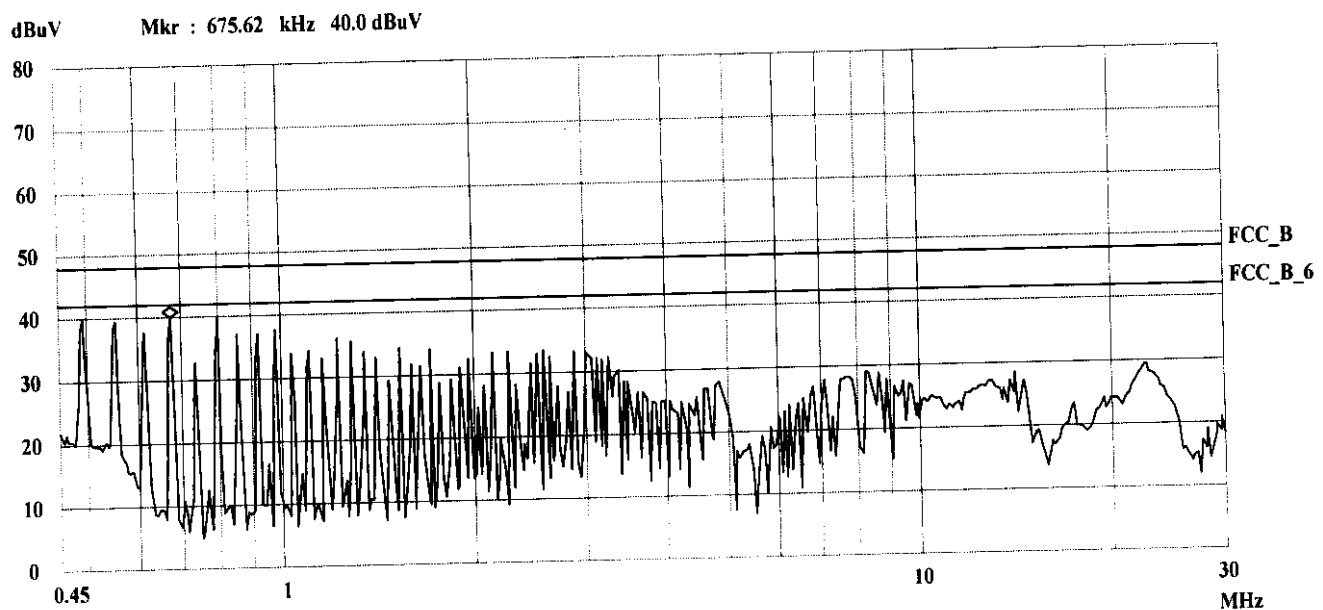
EUT: LAVA LCD Monitor M/N:P615U
Manuf: GES
Op Cond: 1024*768 60KHz
Operator: Cherry
Test Spec: VA 120V/60Hz
Comment: Temp:27°C
Humi:42%



Conduction Test FCC B

24. Nov 98 21:22

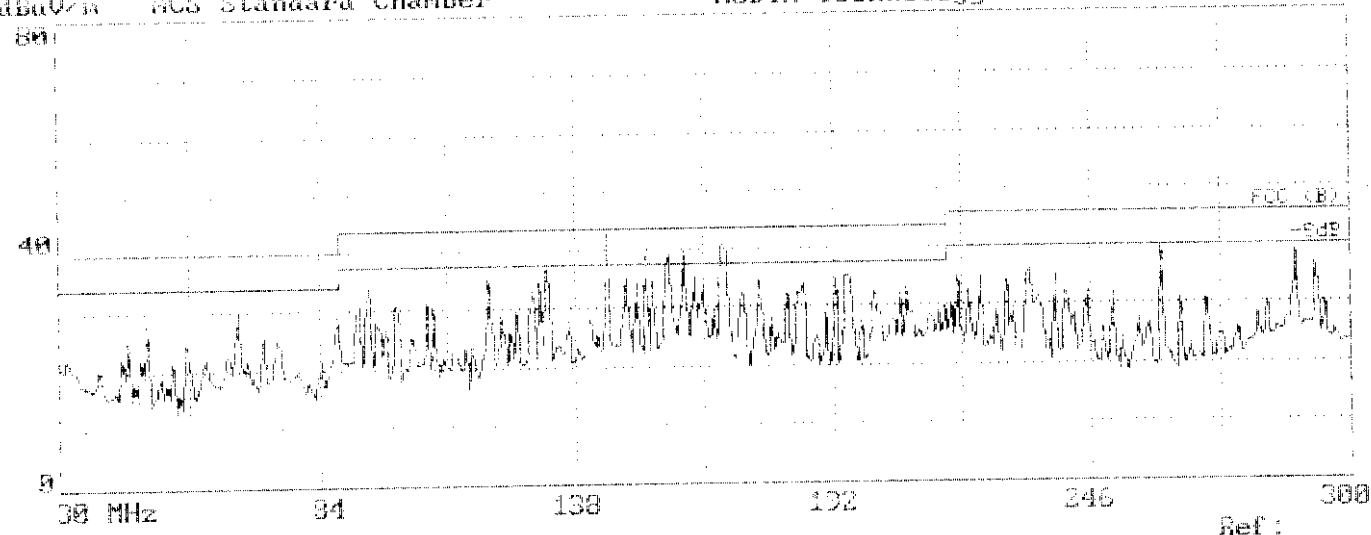
EUT: LAVA LCD Monitor M/N:P615U
Manuf: GES
Op Cond: 1024*768 60KHz
Operator: Cherry
Test Spec: VB 120V/60Hz
Comment: Temp:27°C
Humi:42%



APPENDIX II

Data#: 00 File#: GES.EMI
 dBuV/m ACS Standard Chamber

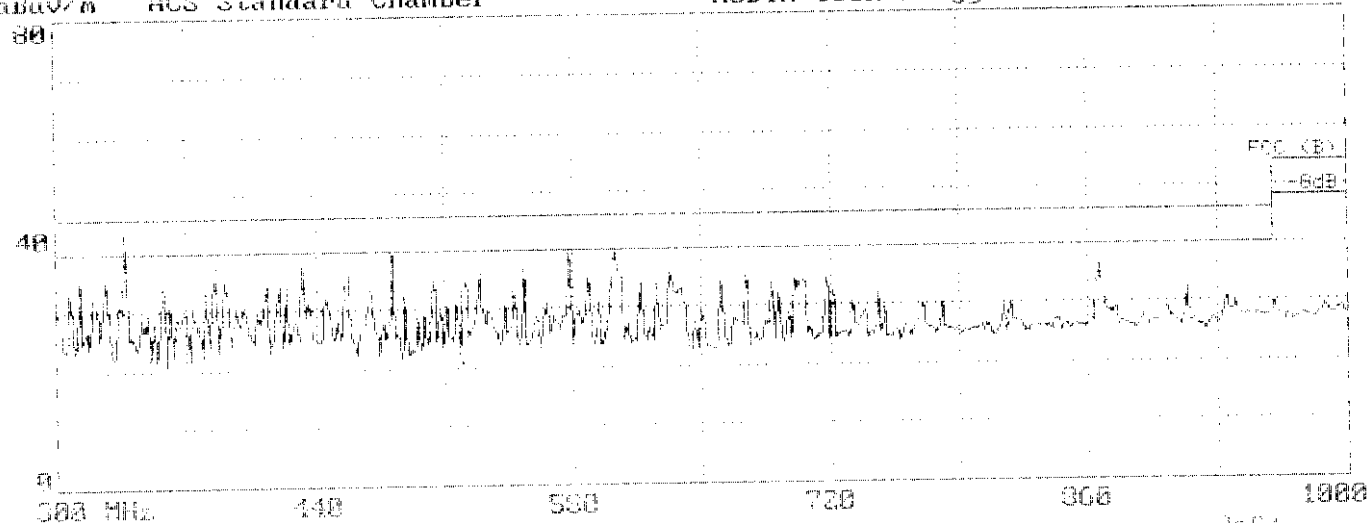
Date: 11-23-1998 Time: 11:44:00
 AUDIX Technology (Shenzhen) Co., Ltd.



Trace :
 Limit : FCC (B)
 Trace : F00 (B) HORIZONTAL
 Marker : 0dB
 Unit : DATA 100 MHz to 100 MHz
 Power : 100V/50Hz
 Mod : 0.40/150 01.5KHz

Data#: 01 File#: GES.EMI
 dBuV/m ACS Standard Chamber

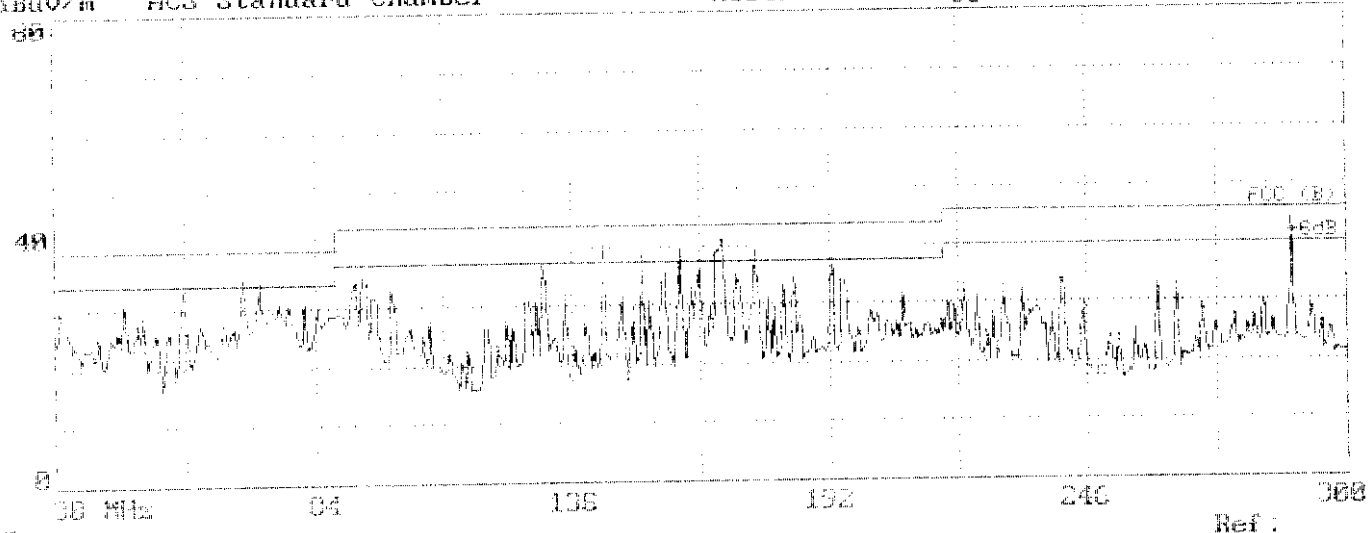
Date: 11-23-1998 Time: 11:45:33
 AUDIX Technology (Shenzhen) Co., Ltd.



Trace :
 Limit : FCC (B)
 Trace : F00 (B) HORIZONTAL
 Marker : 0dB
 Unit : DATA 100 MHz to 100 MHz
 Power : 100V/50Hz
 Mod : 0.40/150 01.5KHz

Data#: 82 File#: GES.EMI
dBuV/m ACS Standard Chamber

Date: 11-23-1998 Time: 11:45:43
AUDIX Technology (Shenzhen) Co., Ltd.

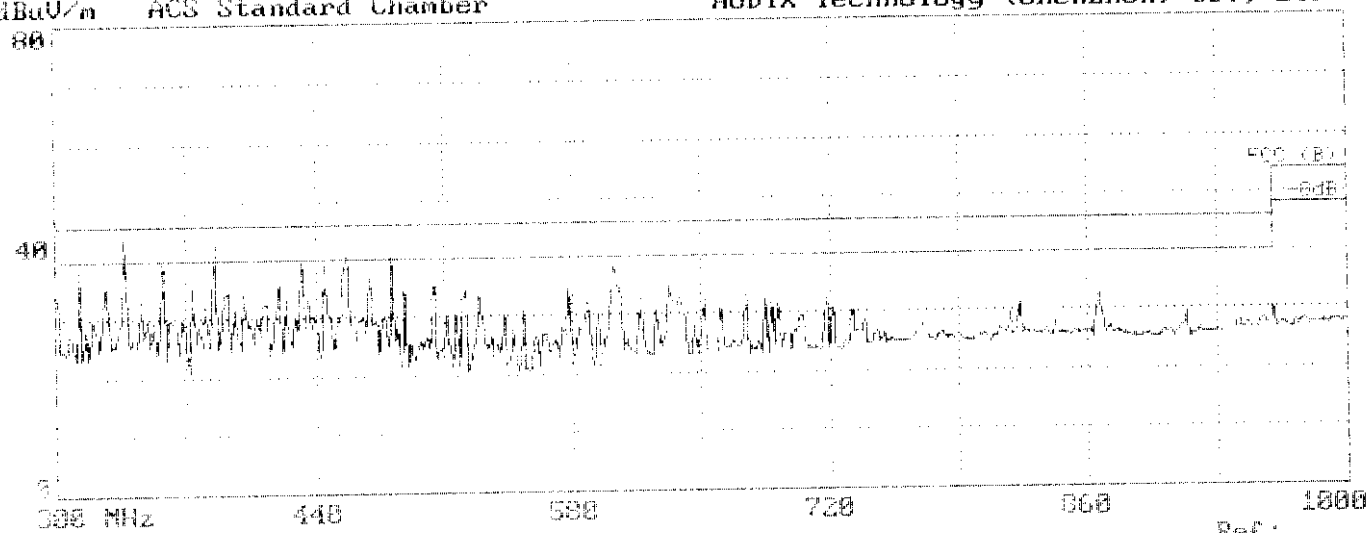


Trace :

Unit : F (B) 30
Probe : 2176 VERTICAL
Margin : 6dB
EUT : LAVA LCD Monitor M/N:P615U
Power : 100V/60Hz
Noise : 640/480 31.5KHz

Data#: 83 File#: GES.EMI
dBuV/m ACS Standard Chamber

Date: 11-23-1998 Time: 11:47:49
AUDIX Technology (Shenzhen) Co., Ltd.

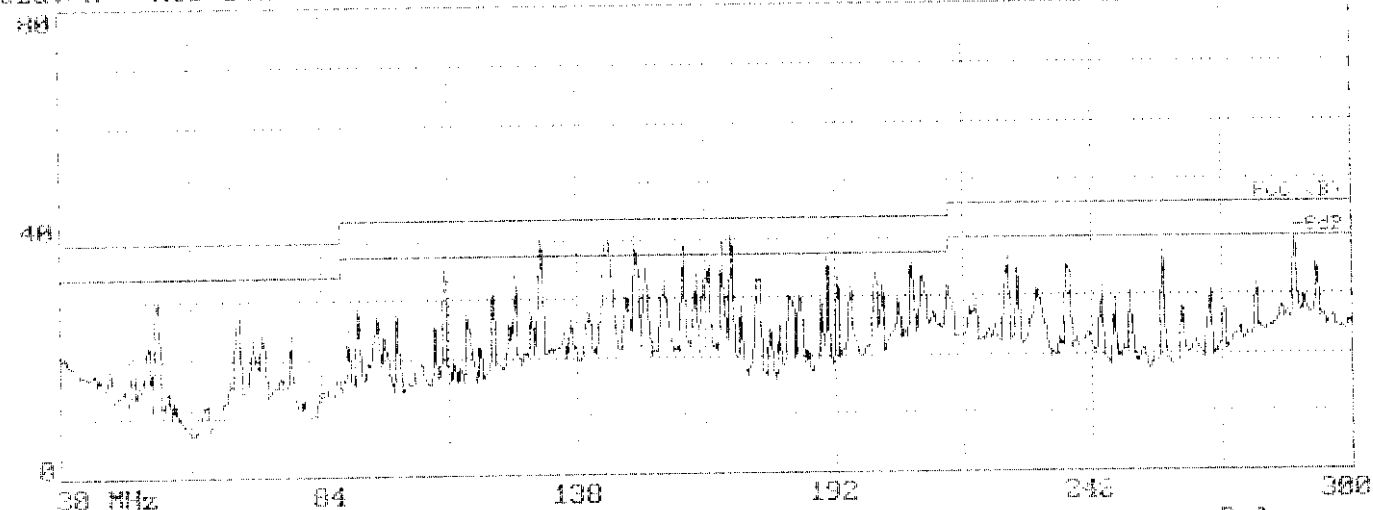


Trace :

Unit : F (B) 30
Probe : 2176 VERTICAL
Margin : 6dB
EUT : LAVA LCD Monitor M/N:P615U
Power : 100V/60Hz
Noise : 640/480 31.5KHz

Data#: 70 File#: GES.EMI
dBuV/m ACS Standard Chamber

Date: 11-23-1998 Time: 11:37:43
AUDIX Technology (Shenzhen) Co., Ltd.



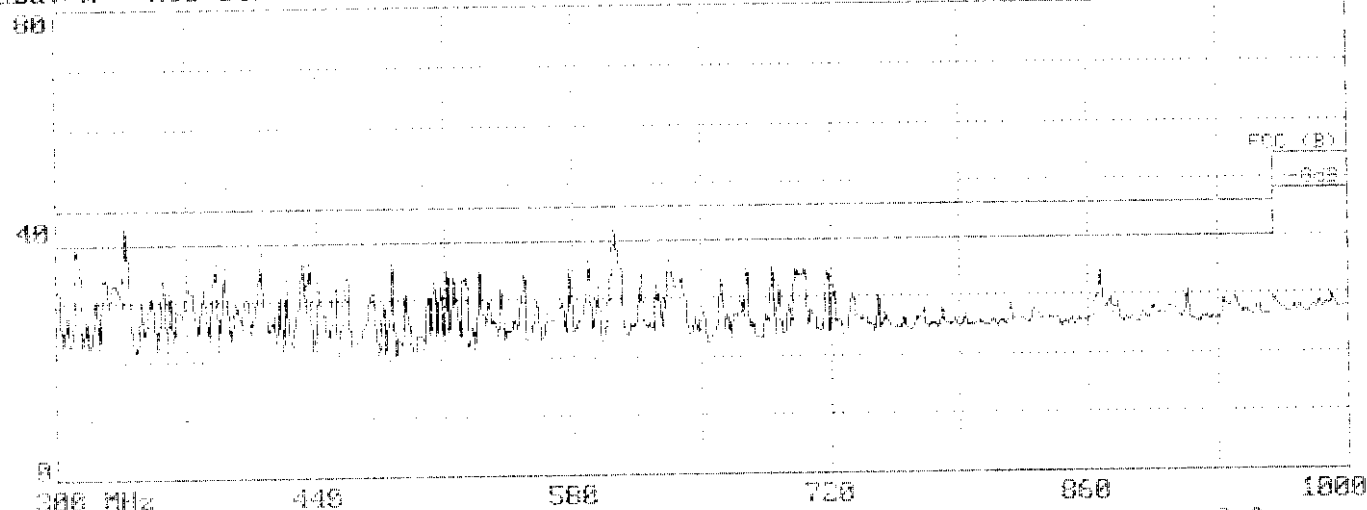
Trace :

Unit : dB (A) 3Y
Scale : 1176 HORIZONTAL
Margin : 6dB
EXT : DATA 1D MAX 100 MIN: 00150
Power : 120V/60Hz
Max : 000400 17.00Hz

Ref :

Data#: 70 File#: GES.EMI
dBuV/m ACS Standard Chamber

Date: 11-23-1998 Time: 11:39:38
AUDIX Technology (Shenzhen) Co., Ltd.



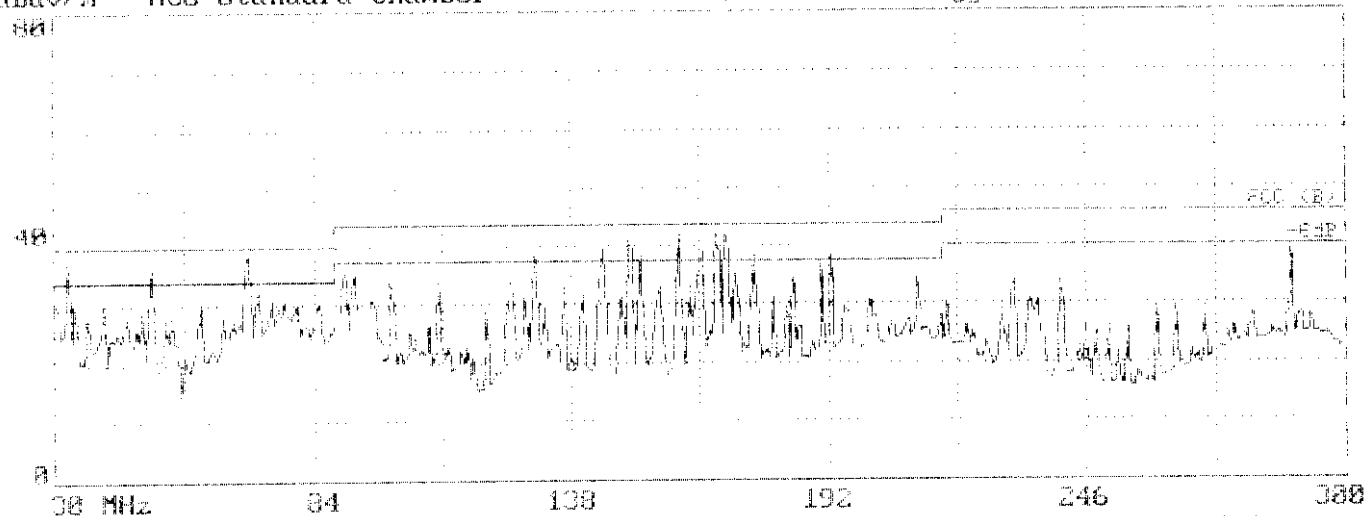
Trace :

Unit : dB (B) 3Y
Scale : 1176 HORIZONTAL
Margin : 6dB
EXT : DATA 1D MAX 100 MIN: 00150
Power : 120V/60Hz
Max : 000400 17.00Hz

Ref :

Data#: 76 File#: GES.EMI
aBuV/m ACS Standard Chamber

Date: 11-23-1998 Time: 11:35:13
AUDIX Technology (Shenzhen) Co., Ltd.



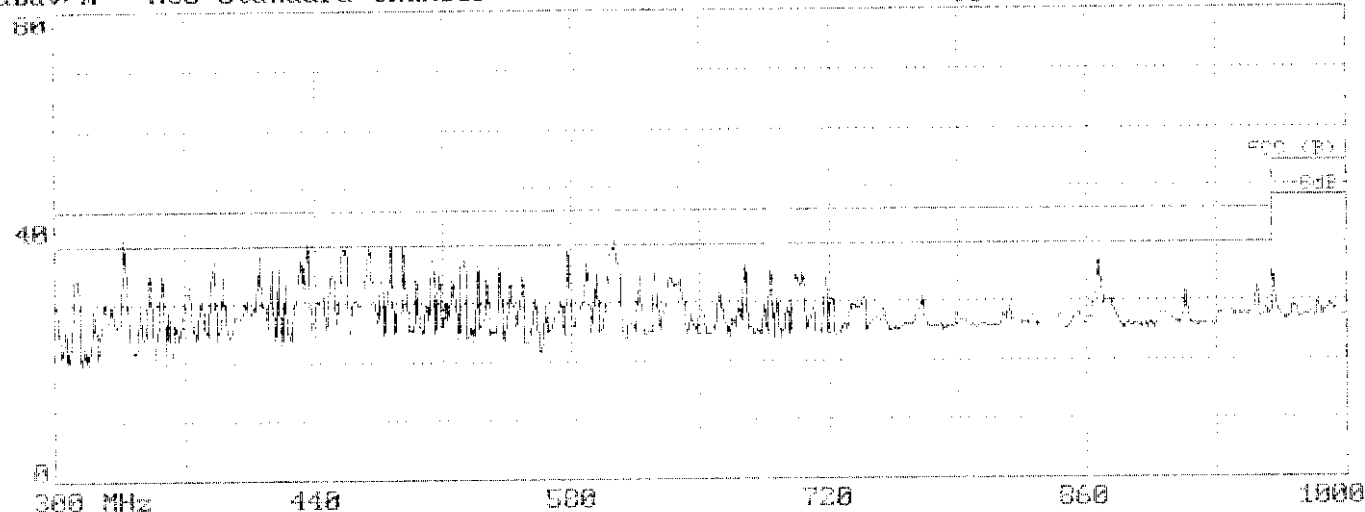
Trace :

Ref :

Ampl : FCC (B) 10
Probe : 2176 VERTICAL
Margin : 0dB
TUT : LAVA 100 MHz (LL) M/N100150
Power : 120V 60Hz
X-axis : 300-600 37.71%

Data#: 77 File#: GES.EMI
aBuV/m ACS Standard Chamber

Date: 11-23-1998 Time: 11:36:26
AUDIX Technology (Shenzhen) Co., Ltd.



Trace :

Ref :

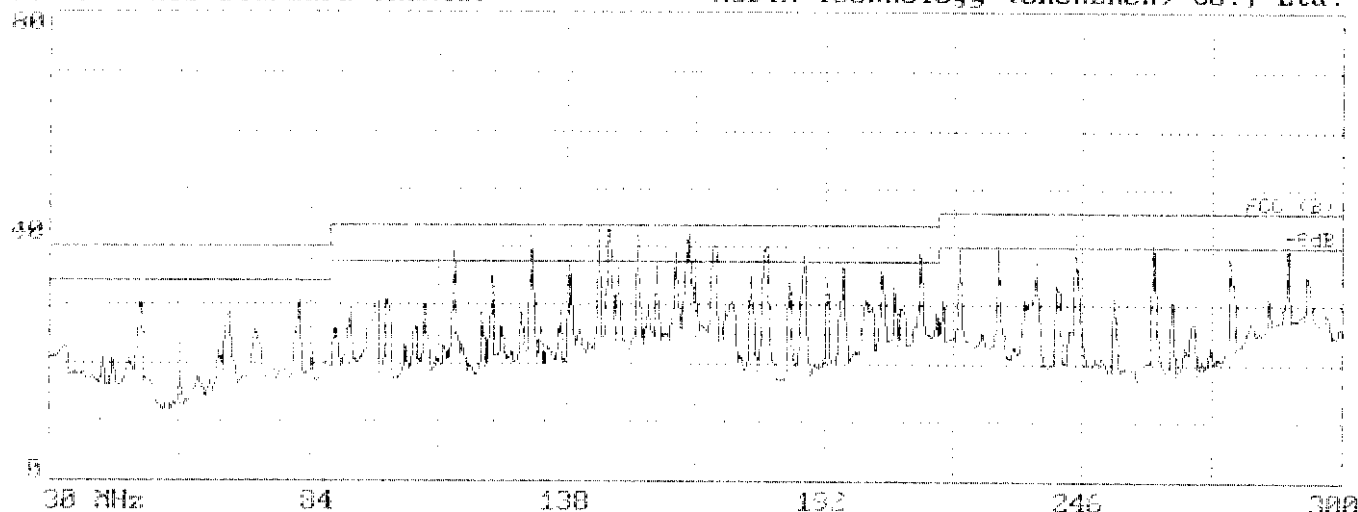
Ampl : FCC (B) 10
Probe : 2176 VERTICAL
Margin : 0dB
TUT : LAVA 100 MHz (LL) M/N100150
Power : 120V 60Hz
X-axis : 380-1000 37.71%

Data#: 72 File#: GES.EMI

Date: 11-23-1998 Time: 11:29:11

dBuV/m ACS Standard Chamber

AUDIX Technology (Shenzhen) Co., Ltd.



Trace :

Ref :

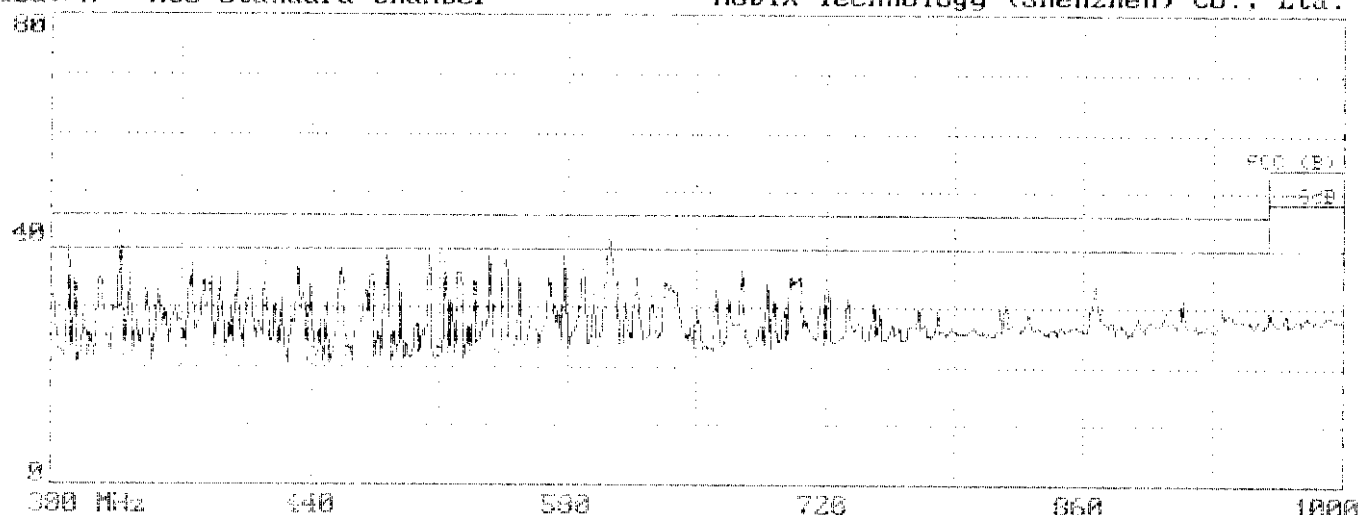
Limit : FCC (B) 30
 Preset : 0170 HORIZONTAL
 Margin : 6dB
 EUT : LAVA 100 Mon 1-1 M/N: P.150
 Power : 100V/60Hz
 Mode : 1004/700-60KHz
 :
 :

Data#: 73 File#: GES.EMI

Date: 11-23-1998 Time: 11:38:57

dBuV/m ACS Standard Chamber

AUDIX Technology (Shenzhen) Co., Ltd.



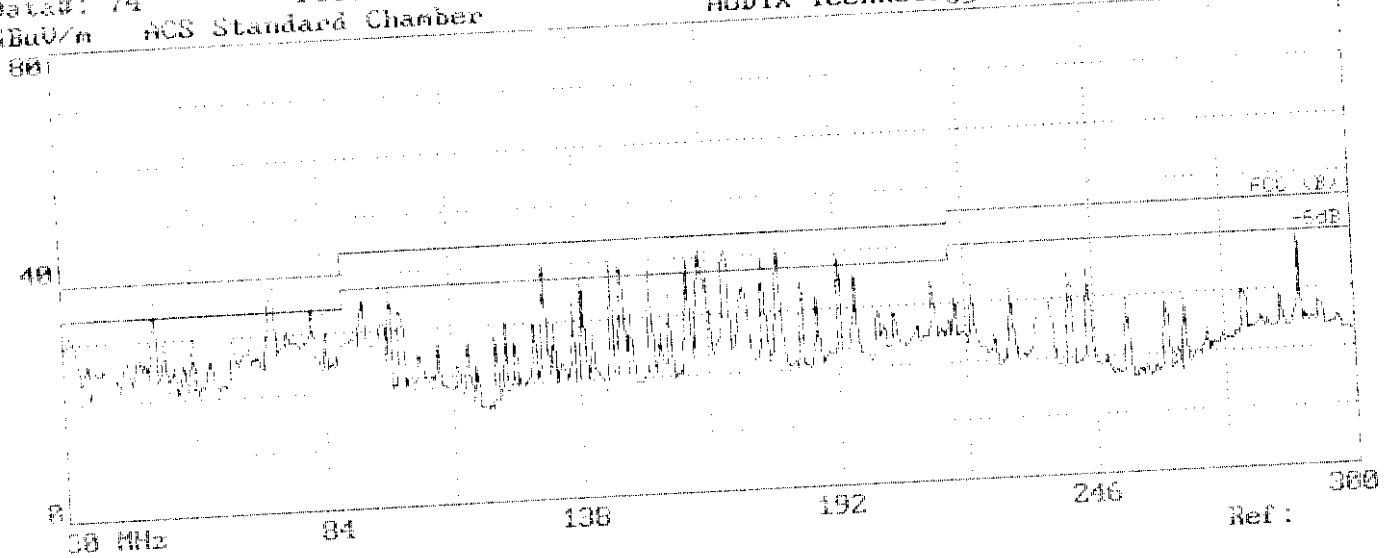
Trace :

Ref :

Limit : FCC (B) 30
 Preset : 0170 HORIZONTAL
 Margin : 6dB
 EUT : LAVA 100 Mon 1-1 M/N: P.150
 Power : 100V/60Hz
 Mode : 1004/700-60KHz
 :
 :

Data#: 74 File#: GES.EMI
dBuV/m ACS Standard Chamber

Date: 11-23-1998 Time 11:31:55
AUDIX Technology (Shenzhen) Co., Ltd.



Data#: 75 File#: GES.EMI
dBuV/m ACS Standard Chamber

Date: 11-23-1998 Time: 11:33:10
AUDIX Technology (Shenzhen) Co., Ltd.

