SHENZHEN EMTEK CO., LTD. Tel: +86-755-2695 4280 Fax: +86-755-2695 4282 http://www.emcsafety.com
Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

Declaration of Conformity

NO.: E0509096E

The following products have been tested by us with the listed standards and found in conformity with the council EMC directive 89/336/EEC.It is possible to use CE marking to demonstrate the conformity with this EMC Directive.

Applicant	:	GlobTek, Inc.
Address	:	186 Veterans Dr Northvale, NJ 07647 / USA
Manufacturer	:	GlobTek, Inc.
Address	:	186 Veterans Dr Northvale, NJ 07647 / USA
EUT	:	Adaptor
M/N	:	GT(M)9100P12048-X.X, GT(M)9100P12024-X.X, GT(M)9100P10012-X.X

Test Standards:	
EN55022: 1998+A1: 2000 +A2: 2003	Information technology equipment — Radio disturbance characteristic — Limits and methods of measurement
EN 55011:1997 +A1: 1999 +A2: 2002	Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement Includes amendments
EN61000-3-2: 2000	Electromagnetic Compatibility (EMC) Part 3: Limits—Section 2 .Limits for harmonic current emission (equipment input current≤16A per phase)
EN 61000-3-3: 1995 + A1: 2001	Electromagnetic Compatibility (EMC) Part 3: Limits—Section 3:limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current≤16A
EN55024: 1998+A1: 2001 +A2: 2003	Information technology equipment— Immunity characteristic — Limits and methods of measurement
EN 60601-1-2: 2001	Medical Electrical Equipment Part 1-2: General Requirements for Safety - Collateral Standard: Electromagnetic Compatibility - Requirements and Tests

CE

SHENZHEN EMTEK CO.,LTD. APPROVED * EMC *

(Manager)

September 25, 2005

The test report was carried out from the submitted type-samples of a product in conformity with the specification of the respective standards. The certificate holder has the right to fix the CE-mark for EMC directive on the product complying with the inspection samples.

EMC TEST REPORT
for
GlobTek, Inc.

Adaptor
Model No.: GT(M)9100P12048-X.X, GT(M)9100P12024-X.X,
GT(M)9100P10012-X.X

Prepared for	:	GlobTek, Inc.
Address	:	186 Veterans Dr Northvale, NJ 07647 / USA
Prepared by	:	Shenzhen EMTEK Co., Ltd
Address	:	Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China Tel: (0755) 26954280 Fax: (0755) 26954282

Report Number	:	E0509096E
Date of Test	:	September 20, 2005
Date of Report	:	September 24, 2005

TABLE OF CONTENT

Description

Page

Test Report Verification

TEST REPORT VERIFICATION

Applicant	:	GlobTek, Inc.
Manufacturer	:	GlobTek, Inc.
EUT	:	Adaptor
Model No.	:	GT(M)9100P12048-X.X, GT(M)9100P12024-X.X, GT(M)9100P10012-X.X
Input Voltage	:	AC 100-240V, 50-60Hz 2.0A

Measurement Procedure Used:

EN 55011:1997+A1: 1999 +A2: 2002, EN55022: 1998+A1: 2000+A2: 2003
EN61000-3-2: 2000, EN61000-3-3: 1995+A1: 2001
EN55024: 1998+A1: 2001+A2: 2003, EN 60601-1-2: 2001
(EN61000-4-2: 2001, EN61000-4-3: 2002, EN61000-4-4: 2001,EN61000-4-5: 2001, EN61000-4-6: 2001, EN61000-4-8: 2001,EN61000-4-11: 2001)

The device described above is tested by SHENZHEN EMTEK CO., LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and SHENZHEN EMTEK CO., LTD. is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the EN 55011, EN61000-3-2, EN61000-3-3, EN 60601-1-2 and EN55024 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of SHENZHEN EMTEK CO., LTD.

Date of Test : September 20, 2005

Prepared by : _____
(Engineer)

Reviewer : _____
(Project Manager)

Approved & Authorized Signer : _____
(Manager)

SHENZHEN EMTEK CO., LTD. APPROVED * EMC *

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	Adaptor
Model Number	:	GT(M)9100P12048-X.X, GT(M)9100P12024-X.X, GT(M)9100P10012-X.X (Note: Electro circuit of the EUT is the same. except output voltage and output current are different. We prepare GT(M)9100P12048-X.X, GT(M)9100P12024-X.X, GT(M)9100P10012-X.X for EMI test. We prepare GT(M)9100P12048-X.X for EMS test.)
Power Supply	:	Input: AC 100-240V, 50-60Hz 2.0A Output: DC 48V/2.5A, DC24V/5.0A, DC12V/8.3A
Power Cord	:	Shielded, Undetachable, 1.0m≤3.0m
Applicant	:	GlobTek, Inc.
Address	:	186 Veterans Dr Northvale, NJ 07647 / USA
Manufacturer	:	GlobTek, Inc.
Address	:	186 Veterans Dr Northvale, NJ 07647 / USA
Date of receiver	:	September 19, 2005
Date of Test	:	September 20, 2005

1.2. Description of Test Facility

Site Description

EMC Lab. : Accredited by TUV Rheinland Guangzhou, 2005.1
The certificate is valid until 2008.2
The Laboratory has been assessed according to the requirements ISO/IEC 17025:1999

Accredited by FCC, December 09, 2002
The Certificate Registration Number is 709623.

Accredited by Industry Canada, January 8, 2003
The Certificate Registration Number is 46405-4480

Name of Firm : SHENZHEN EMTEK CO., LTD
Site Location : Bldg 69, Majialong Industry Zone,
Nanshan District, Shenzhen, Guangdong, China

1.3. Measurement Uncertainty

Radiation Uncertainty : Ur = ± 4.26dB

Conduction Uncertainty : Uc = ± 2.66dB

2. MEASURING DEVICE AND TEST EQUIPMENT

2.1. For Power Line Conducted Emission

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	828985/018	May 29, 2005	1 Year
2.	L.I.S.N	Rohde & Schwarz	ESH2-Z5	834549/005	May 29, 2005	1 Year
3.	50 Coaxial Switch	Anritsu	MP59B	M20531	N/A	N/A
4.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	May 29, 2005	1 Year
5.	Voltage Probe	Rohde & Schwarz	TK9416	N/A	May 29, 2005	1 Year

2.2. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	ANRITSU	MS2661C	6200140915	May 29, 2005	1 Year
2.	Test Receiver	Rohde & Schwarz	ESCS30	828985/018	May 29, 2005	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB9163	142	May 29, 2005	1 Year
4.	50 Coaxial Switch	Anritsu Corp	MP59B	6100237248	May 29, 2005	1 Year
5.	EMI Power Line Filter	DUOJI EME	FNF 201 B16	N/A	May 29, 2005	1 Year
6.	EMI Power Line Filter	JIANLI	DL-40C	N/A	May 29, 2005	1 Year
7.	Cable	Schwarzbeck	AK9513	ACRX1	May 29, 2005	1 Year
8.	Cable	Rosenberger	N/A	FP2RX2	May 29, 2005	1 Year
9.	Cable	Schwarzbeck	AK9513	CRPX1	May 29, 2005	1 Year
10.	Cable	Schwarzbeck	AK9513	CRRX2	May 29, 2005	1 Year
11.	Signal Generator	HP	8648A	3625U00573	May 29, 2005	1 Year

2.3. For Harmonic Current / Flicker Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Power Frequency Test System	HAEFELY	PHF555	080419-03	May 29, 2005	1 Year
2.	PC	N/A	P2L97	N/A	May 29, 2005	N/A

2.4. For Electrostatic Discharge Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ESD Tester	HAEFELY	PESD1600	H708159	May 29, 2005	1 Year

2.5. For RF Strength Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Signal Generator	HP	8648A	3625U00573	May 29, 2005	1 Year
2.	Amplifier	AR	500A100	17034	NCR	NCR
3.	Amplifier	AR	100W/1000M1	17028	NCR	NCR
4.	Isotropic Field Monitor	AR	FM2000	16829	NCR	NCR
5.	Isotropic Field Probe	AR	FP2000	16755	May 29, 2005	1 Year
6.	Biconic Antenna	EMCO	3108	9507-2534	NCR	NCR
7.	Log-periodic Antenna	AR	AT1080	16812	NCR	NCR
8.	PC	N/A	486DX2	N/A	N/A	N/A

2.6. For Electrical Fast Transient /Burst Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Burst Tester	HAEFELY	PEFT4010	080981-16	May 29, 2005	1Year
2.	Coupling Clamp	HAEFELY	IP-4A	147147	May 29, 2005	1Year

2.7. For Surge Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Surge Tester	HAEFELY	PSURGE4.1	080107-04	May 29, 2005	1Year

2.8. For Injected Current Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Simulator	EMTEST	CWS500C	0900-12	May 29, 2005	1Year
2.	CDN	EMTEST	CDN-M2	5100100100	May 29, 2005	1Year
3.	CDN	EMTEST	CDN-M3	0900-11	May 29, 2005	1Year
4.	Injection Clamp	EMTEST	F-2031-23 MM	368	May 29, 2005	1Year
5.	Attenuator	EMTEST	ATT6	0010222A	May 29, 2005	1Year

2.9. For Magnetic Field Immunity Test

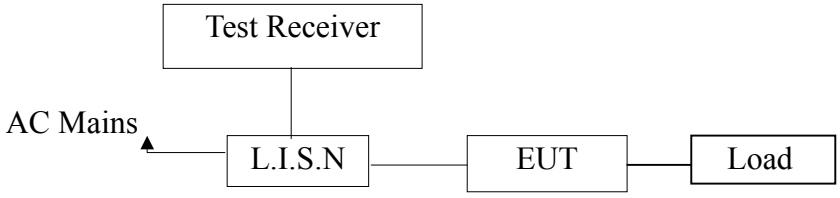
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Magnetic Field Tester	HAEFELY	MAG100	250040.1	May 29, 2005	1Year

2.10. For Voltage Dips and Interruptions Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Dips Tester	HAEFELY	Pline1610	083732-12	May 29, 2005	1Year

3. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1.Block Diagram of Test Setup



(EUT: Adaptor)

3.2.Measuring Standard

EN 55011:1997+A1: 1999 +A2: 2002, EN55022: 1998+A1: 2000+A2: 2003

3.3. Power Line Conducted Emission Limit

Power Line Conducted Emission Limits (Class B)

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50
Notes: 1. *Decreasing linearly with logarithm of frequency. 2. The lower limit shall apply at the transition frequencies.		

3.4.EUT Configuration on Measurement

The following equipments are installed on Conducted Emission Measurement to meet EN 55022 and EN55011 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

Adaptor (EUT)

Model Number : GT(M)9100P12048-X.X, GT(M)9100P12024-X.X, GT(M)9100P10012-X.X

Manufacturer : GlobTek, Inc.

3.5.Operating Condition of EUT

3.5.1.Setup the EUT as shown on Section 3.1.

3.5.2.Turn on the power of all equipments.

3.5.3.Let the EUT work in measuring mode (Full Load) and measure it.

3.6.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided 50ohm-coupling impedance for the tested equipments. Both sides of AC line are investigated to find out the maximum conducted emission according to the EN 55022 regulations during conducted emission measurement.
The bandwidth of the field strength meter (R&S Test Receiver ESCS30) is set at 9KHz in 150KHz~30MHz and 200Hz in 9KHz~150KHz.

The frequency range from 150kHz to 30MHz is investigated
All the scanning waveform is put in Appendix I.

3.7 Measuring Results

PASS.

Please reference to the following page

Date of Test	:	September 20, 2005	Temperature	:	22℃
EUT	:	Adaptor	Humidity	:	50%
M/N	:	GT(M)100P12048-X.X	Test Mode	:	Full load

Test Line	Frequency MHz	Emission Level QP dB(μV)	Emission Level AV dB(μV)	Limits QP dB(μV)	Limits AV dB(μV)	Margin QP dB(μV)	Margin AV dB(μV)
Neutral	**0.155**	**52.70**	**51.90**	**65.73**	**55.73**	**-13.03**	**-3.83**
	0.672	40.10	38.30	56.00	46.00	-15.90	-7.70
	0.976	42.10	40.20	56.00	46.00	-13.90	-5.80
	1.230	42.20	39.30	56.00	46.00	-13.80	-6.70
Line	0.155	51.20	49.70	65.73	55.73	-14.53	-6.03
	0.667	40.50	39.60	56.00	46.00	-15.50	-6.40
	0.718	41.00	40.10	56.00	46.00	-15.00	-5.90
	0.976	42.50	40.20	56.00	46.00	-13.50	-5.80

Remark: 1. The worst emission is detected at 0.155MHz with corrected AV signal level of 51.90dB(μV) (limit is 55.73dB(μV)), When the Neutral of the EUT is connected to LISN.

Reviewer phenix

Date of Test	:	September 20, 2005	Temperature	:	22℃
EUT	:	Adaptor	Humidity	:	50%
M/N	:	GT(M)9100P12024-X.X	Test Mode	:	Full load

Test Line	Frequency MHz	Emission Level QP dB(μV)	Emission Level AV dB(μV)	Limits QP dB(μV)	Limits AV dB(μV)	Margin QP dB(μV)	Margin AV dB(μV)
Neutral	0.165	49.60	46.00	65.21	55.21	-15.61	-9.21
	1.027	36.40	34.70	56.00	46.00	-19.60	-11.30
	16.522	41.10	36.50	60.00	50.00	-18.90	-13.50
Line	**0.155**	**51.10**	**48.50**	**65.73**	**55.73**	**-14.63**	**-7.23**
	0.202	44.10	41.60	63.53	53.53	-19.43	-11.93
	0.964	36.00	34.90	56.00	46.00	-20.00	-11.10

Remark: 1. The worst emission is detected at 0.155MHz with corrected AV signal level of 48.50dB(μV) (limit is 55.73dB(μV)), When the Line of the EUT is connected to LISN.

Reviewer : Phenix

Date of Test	:	September 20, 2005	Temperature	:	22℃
EUT	:	Adaptor	Humidity	:	50%
M/N	:	GT(M)9100P10012-X.X	Test Mode	:	Full load

Test Line	Frequency MHz	Emission Level QP dB(μV)	Emission Level AV dB(μV)	Limits QP dB(μV)	Limits AV dB(μV)	Margin QP dB(μV)	Margin AV dB(μV)
Neutral	0.166	46.20	40.60	65.16	55.16	-18.96	-14.56
	0.220	44.20	35.50	62.82	52.82	-18.62	-17.32
	2.979	**45.60**	**40.90**	**56.00**	**46.00**	**-10.40**	**-5.10**
Line	0.221	43.60	31.40	62.78	52.78	-19.18	-21.38
	2.751	45.20	40.10	56.00	46.00	-10.80	-5.90
	4.930	31.80	6.50	56.00	46.00	-24.20	-39.50

Remark: 1. The worst emission is detected at 2.979MHz with corrected AV signal level of 40.90dB(μV) (limit is 46.00dB(μV)), When the Neutral of the EUT is connected to LISN.

Reviewer : Phenix

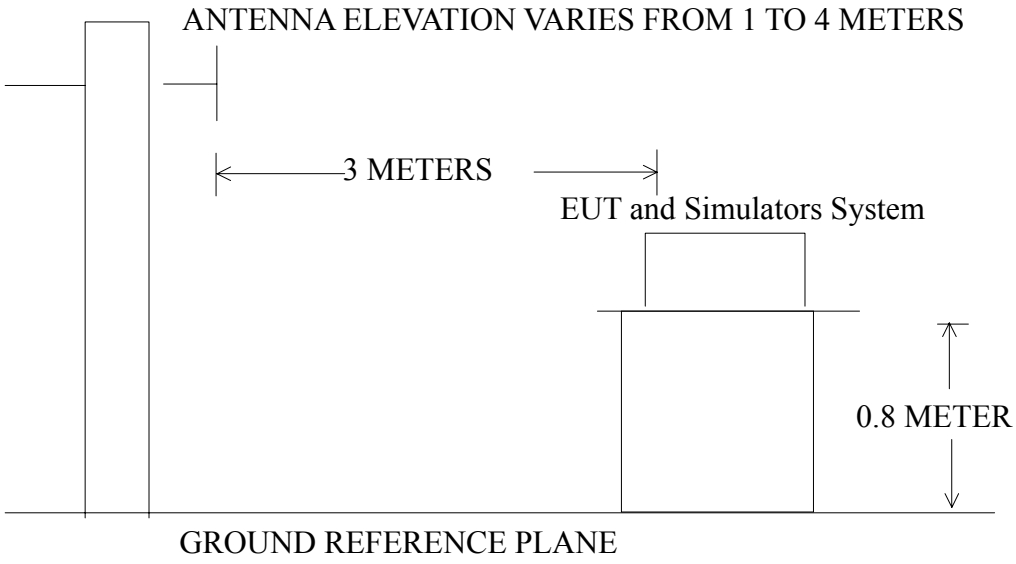
4. RADIATED EMISSION MEASUREMENT

4.1.Block Diagram of Test

4.1.1.Block diagram of connection between the EUT and simulators

(EUT: Adaptor)

4.1.2.Block diagram of test setup (In chamber)



(EUT: Adaptor)

4.2.Measuring Standard

EN 55011:1997+A1: 1999 +A2: 2002, EN55022: 1998+A1: 2000+A2: 2003

4.3.Radiated Emission Limits

All emanations from a class B device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (dBμV/m)
30 ~ 230	10	30
230 ~ 1000	10	37

Note**:** (1) The smaller limit shall apply at the combination point between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

4.4. EUT Configuration on Test

The EN 55011 and EN55022 regulations test method must be used to find the maximum emission during radiated emission measurement.

4.5. Operating Condition of EUT

4.5.1. Turn on the power.

4.5.2. After that, let the EUT work in test mode (Full Load) and measure it.

4.6. Test Procedure

The EUT is placed on a turntable, which is 0.8 meter high above the ground. The turntable 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 an antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Bilog antenna (calibrated by Dipole Antenna) is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

The bandwidth of the Receiver (ESCS30) is set at 120kHz.
All the scanning curves are attached in Appendix II.

4.7. Measuring Results

PASS.

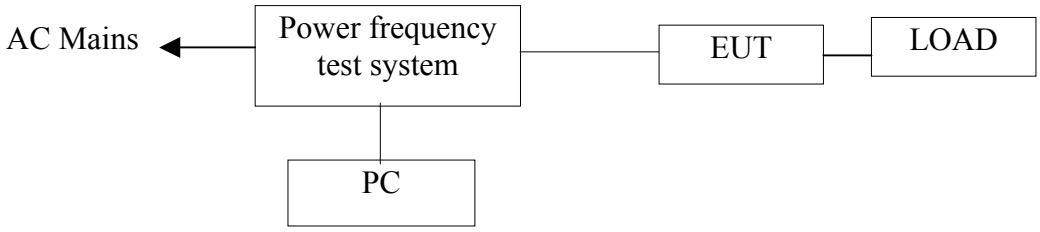
The frequency range from 30MHz to 1000MHz is investigated.

Please reference to the following page

Reviewer **:** Phenix

5. HARMONIC CURRENT EMISSION MEASUREMENT

5.1Block Diagram of Test Setup



(EUT: Adaptor)

5.2 Measuring Standard

EN 61000-3-2: 2000 CLASS D

5.3 Operation Condition of EUT

Same as Section 3.5, except the test setup replaced as Section 5.1.

5.4 Measuring Results

PASS.

Please see the attached pages.

IEC 61000-3-2 TEST REPORT 2005/09/21 16:34

Unit: Adaptor M/N:GT(M)9100P12048-X.X

Test mode: Full load

Manuf: GlobTek

Operator: Jerry

TEST SETUP

Test Freq.:	50.00 Hz.	Test Voltage:	230.0 vac
Waveform :	SINE	Test Time:	2.5 min.
Classification :	CLASS D	Test Type:	STEADY-STATE
Prog. Zo Enabled:	YES	Prog. Zo:	0.000

Motor Driven with Phase Angle Control: NO
Impedance selected: DIRECT

Synthetic R+L Enabled: NO
Resistance: 0.380 Ohms Inductance: 460.000 uH

TEST DATA

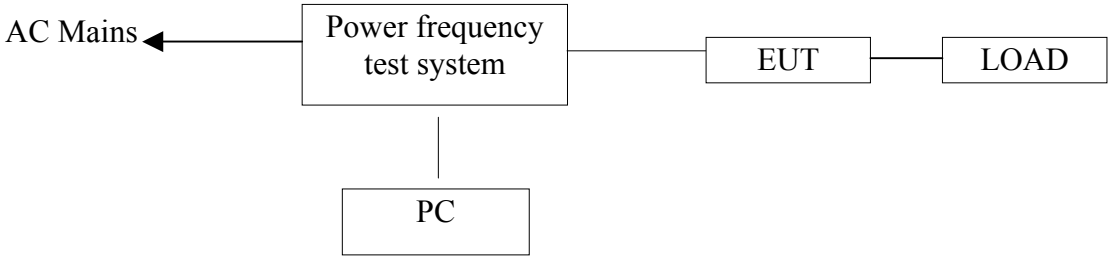
Result: PASS

	Harmonic Current Results				Harmonic Voltage Results		
Hn	AMPS	LO Limit	HI Limit	Result	%Fund.	Limit	Result
0	0.000	0.000	0.000	PASS	0.000	NaN	PASS
1	0.286	NaN	NaN	PASS	100.000	100.001	PASS
2	0.008	NaN	NaN	PASS	0.013	0.200	PASS
3	0.043	0.408	0.408	PASS	0.014	0.900	PASS
4	0.007	NaN	NaN	PASS	0.009	0.200	PASS
5	0.025	0.228	0.228	PASS	0.011	0.400	PASS
6	0.007	NaN	NaN	PASS	0.004	0.200	PASS
7	0.021	0.120	0.120	PASS	0.007	0.300	PASS
8	0.006	NaN	NaN	PASS	0.001	0.200	PASS
9	0.017	0.060	0.060	PASS	0.005	0.200	PASS
10	0.005	NaN	NaN	PASS	0.003	0.200	PASS
11	0.014	0.042	0.042	PASS	0.003	0.100	PASS
12	0.004	NaN	NaN	PASS	0.005	0.100	PASS
13	0.010	0.035	0.035	PASS	0.004	0.100	PASS
14	0.004	NaN	NaN	PASS	0.005	0.100	PASS
15	0.007	0.030	0.030	PASS	0.005	0.100	PASS
16	0.003	NaN	NaN	PASS	0.004	0.100	PASS
17	0.005	0.027	0.027	PASS	0.003	0.100	PASS
18	0.002	NaN	NaN	PASS	0.002	0.100	PASS
19	0.004	0.024	0.024	PASS	0.003	0.100	PASS
20	0.001	NaN	NaN	PASS	0.002	0.100	PASS
21	0.004	0.022	0.022	PASS	0.003	0.100	PASS
22	0.001	NaN	NaN	PASS	0.002	0.100	PASS
23	0.003	0.020	0.020	PASS	0.004	0.100	PASS
24	0.001	NaN	NaN	PASS	0.005	0.100	PASS
25	0.002	0.018	0.018	PASS	0.002	0.100	PASS
26	0.001	NaN	NaN	PASS	0.003	0.100	PASS
27	0.002	0.017	0.017	PASS	0.003	0.100	PASS
28	0.001	NaN	NaN	PASS	0.002	0.100	PASS
29	0.002	0.015	0.015	PASS	0.003	0.100	PASS
30	0.000	NaN	NaN	PASS	0.001	0.100	PASS
31	0.002	0.014	0.014	PASS	0.003	0.100	PASS
32	0.001	NaN	NaN	PASS	0.001	0.100	PASS
33	0.002	0.014	0.014	PASS	0.004	0.100	PASS
34	0.000	NaN	NaN	PASS	0.002	0.100	PASS
35	0.002	0.013	0.013	PASS	0.002	0.100	PASS
36	0.000	NaN	NaN	PASS	0.002	0.100	PASS
37	0.002	0.012	0.012	PASS	0.003	0.100	PASS
38	0.001	NaN	NaN	PASS	0.005	0.100	PASS
39	0.002	0.011	0.011	PASS	0.002	0.100	PASS
40	0.001	NaN	NaN	PASS	0.003	0.100	PASS

END OF REPORT

6.VOLTAGE FLUCTUATION AND FLICKER MEASUREMENT

6.1Block Diagram of Test Setup



(EUT: Adaptor)

6.2Measuring Standard

EN 61000-3-3:1995+A1: 2001

6.3Operation Condition of EUT

Same as Section 3.5, except the test setup replaced as Section 6.1.

6.4Measuring Results

PASS.

Please see the attached pages.

IEC 61000-3-3 TEST REPORT 2005/09/21 16:47

Unit: Adaptor M/N:GT(M)9100P12048-X.X

Test mode: ON/OFF

Manuf: GlobTek

Operator: Jerry

==========

TEST SETUP

Test Freq. :	50.00 Hz.	Test Voltage:	230.0 vac
Waveform :	SINE		
Test Time:	10.0 min.	Tshort:	10.0 min.

Prog. Zo Enabled: YES Prog. Zo: 0.000

Voltage Change less than once per Hour: NO

Impedance selected: IEC-725 STD. REF.

Synthetic R+L Enabled: NO

Resistance: 0.380 Ohms Inductance: 460.000 uH

TEST DATA

Result: PASS

	EUT Data	Limit	Result	Test Enabled
Pst max	0.358	1.00	PASS	true
Plt max	0.358	0.65	PASS	false
dc %	0.01	3.00	PASS	true
dmax %	3.78	4.00	PASS	true
d(t) sec.	0.01	0.20	PASS	true
	Power Source Data			
Source Pst max	0.179	0.400	PASS	true
% THD	0.03	3.00	PASS	true

END OF REPORT

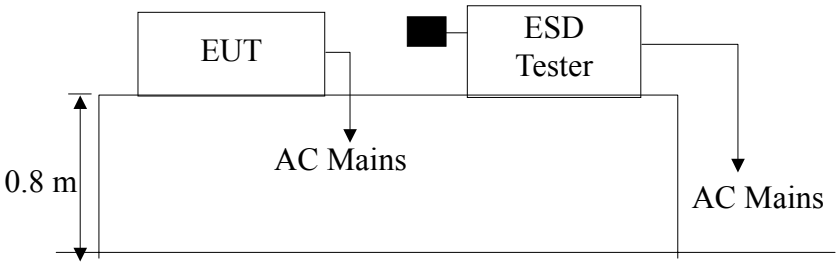
7. ELECTROSTATIC DISCHARGE IMMUNITY TEST

7.1 Block Diagram of Test Setup

7.1.1 Block diagram of connection between the EUT and simulators

(EUT: Adaptor)

7.1.2 Block diagram of ESD test setup



(EUT: Adaptor)

7.2 Test Standard

EN55024: 1998+A1: 2001+A2: 2003, EN 60601-1-2: 2001 (EN61000-4-2: 2001
Severity Level: 3 / Air Discharge: ±8KV Level: 3 / Contact Discharge: ±4/6KV)

7.3 Severity Levels and Performance Criterion

7.3.1 Severity level

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1.	±2	±2
2.	±4	±4
3.	±6	±8
4.	±8	±15
X	Special	Special

7.3.2Performance criterion **: B**

7.4 EUT Configuration

The configuration of EUT is listed in Section 3.4.

7.5 Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section3.5. Except the test set up replaced by Section 7.1.

7.6 Test Procedure

7.6.1 Air Discharge**:**

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

7.6.2 Contact Discharge**:**

All the procedure shall be same as Section 7.6.1. Except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

7.6.3 Indirect discharge for horizontal coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

7.6.4 Indirect discharge for vertical coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

7.7 Test Results

PASS

Please refer to the following pages

Electrostatic Discharge Test Result

SHENZHEN EMTEK CO., LTD

Applicant	:	GlobTek, Inc.			
EUT	:	Adaptor	Test Date	:	September 20, 2005
M/N	:	GT(M)100P12048-X.X	Temperature	:	22℃
Power Supply	:	AC 230V/50Hz	Humidity	:	50%
Air discharge	:	±8.0KV	Criterion	:	B
Contact discharge	:	±4.0/6.0KV	Test Engineer	:	KYLE
Test Mode	:	Full load			

Location		**Kind** A-Air Discharge C-Contact Discharge	**Result**
Output port	4 points	A	PASS
Slots of the EUT	6 points	A	PASS
LED	5 points	A	PASS
HCP		C	PASS
VCP of front		C	PASS
VCP of rear		C	PASS
VCP of left		C	PASS
VCP of right		C	PASS

Test Equipment: ESD Simulator (HAEFELY, PESD1600)

Remark:

Reviewer: Phenix

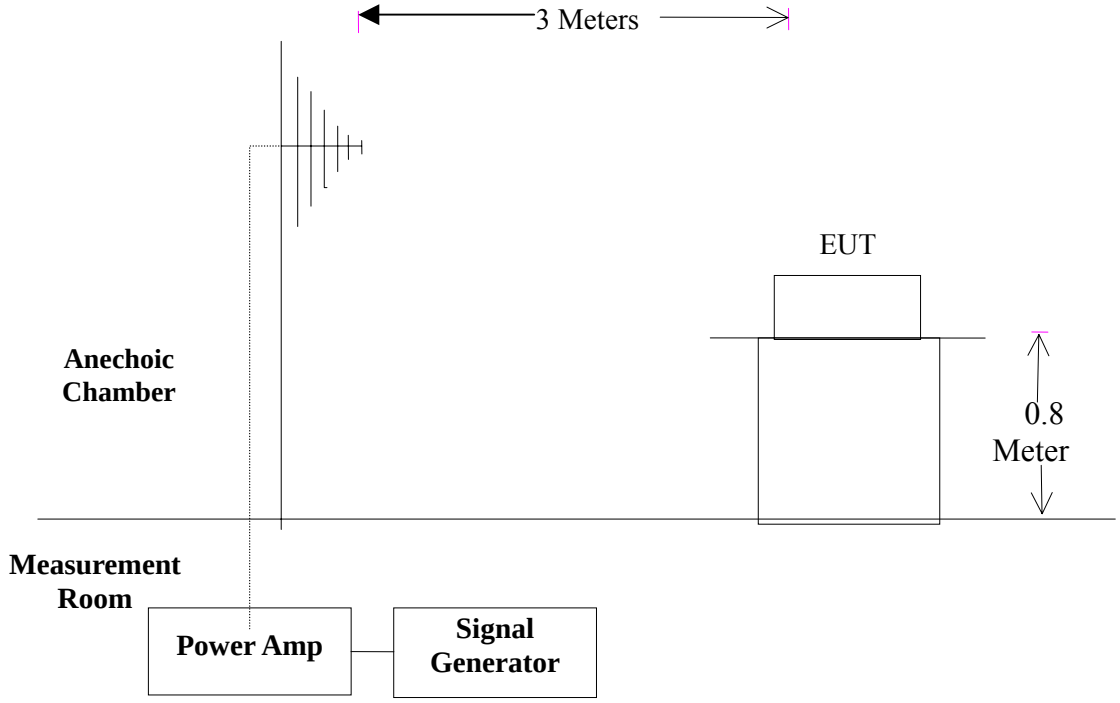
8. RF FIELD STRENGTH SUSCEPTIBILITY TEST

8.1 Block Diagram of Test

8.1.1 Block diagram of connection between the EUT and Load

(EUT: Adaptor)

8.1.2 Block diagram of RS test setup



(EUT: Adaptor)

8.2 Test Standard

EN55024: 1998+A1: 2001+A2: 2003, EN 60601-1-2: 2001 (EN61000-4-3: 2002 (Severity Level: 2, 3V / m))

8.3 Severity Levels and Performance Criterion

8.3.1 Severity Levels

Level	Field Strength V/m
1.	1
2.	3
3.	10
X	Special

8.3.2 Performance Criterion : **A**

8.4 EUT Configuration on Test

The configuration of the EUT is same as Section 3.4.

8.5 Operating Condition of EUT

Same as radiated emission measurement, which is listed in Section 3.5, except the test setup replaced as Section 8.1.

8.6 Test Procedure

The EUT are placed on a table, which is 0.8 meter high above the ground. The EUT is set 3 meters away from the transmitting antenna, which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna is set on test. Each of the four sides of the EUT must be faced this transmitting antenna and measured individually.
In order to judge the EUT performance, a CCD camera is used to monitor its screen. All the scanning conditions are as following:

Condition of Test	Remark
1. Fielded Strength	3V/m (Severity Level 2)
2. Radiated Signal	Modulated
3. Scanning Frequency	80MHz-2.5GHz
4. Sweep time of radiated	0.0015 Decade/s
5. Dwell Time	1 Sec.

8.7 Test Results

PASS.

Please refer to the following page.

RF Field Strength Susceptibility Test Results

SHENZHEN EMTEK CO., LTD.

Applicant	:	GlobTek, Inc.			
EUT	:	Adaptor	Test Date	:	September 20, 2005
M/N	:	GT(M)100P12048-X.X	Temperature	:	22℃
Field Strength	:	3 V/m	Humidity	:	50 %
Power Supply	:	AC 230V/50Hz	Criterion	:	A
Test Engineer	:	KYLE	Frequency Range	:	80 MHz to 2.5GHz
Test Mode	:	Full Load			

Modulation: ☐None ☐ Pulse ☑AM 1KHz 80%

	Frequency Rang 1: 80~ 1000MHz		Frequency Rang 2:	
Steps	# / %		# / %	
	Horizontal	Vertical	Horizontal	Vertical
Front	PASS	PASS		
Right	PASS	PASS		
Rear	PASS	PASS		
Left	PASS	PASS		

Test Equipment **:**
1. Signal Generator : 2031 (MARCONI)
2. Power Amplifier : 500A100 & 100W/1000M1 (A&R)
3. Power Antenna : 3108 (EMCO) & AT1080 (A&R)
4. Field Monitor : FM2000 (A&R)

Note:

Reviewer: 

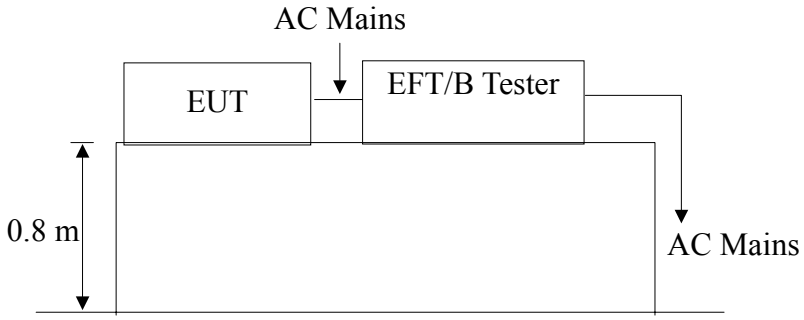
9. ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST

9.1 Block Diagram of Test Setup

9.1.1.Block Diagram of the EUT

(EUT: Adaptor)

9.1.2.EFT Test Setup



9.2 Test Standard

EN55024: 1998+A1: 2001+A2: 2003, EN 60601-1-2: 2001 (EN61000-4-4: 2001, Severity Level, Level 2/3**:** 1 KV/2KV)

9.3 Severity Levels and Performance Criterion

9.3.1 Severity level

Open Circuit Output Test Voltage ±10%		
Level	On Power Supply Lines	On I/O (Input/Output) Signal data and control lines
1.	0.5 KV	0.25 KV
2.	1 KV	0.5 KV
3.	2 KV	1 KV
4.	4 KV	2 KV
X	Special	Special

9.3.2 Performance criterion **: B**

9.4 EUT Configuration

The configuration of EUT is listed in Section 3.4.

9.5 Operating Condition of EUT

9.5.1 Setup the EUT as shown in Section 9.1.

9.5.2 Turn on the power of all equipments.

9.5.3 Let the EUT work in test mode (Full Load) and measure it.

9.6 Test Procedure

The EUT is put on the table, which is 0.8 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

9.6.1 For input and output AC power ports**:**

The EUT is connected to the power mains by using a coupling device, which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 mins.

9.6.2 For signal lines and control lines ports**:**

No I/O ports. It's unnecessary to test.

9.6.3 For DC output line ports**:**

It's unnecessary to test.

9.7 Test Result

PASS.

Please refer to the following page.

Electrical Fast Transient/Burst Test Results

SHENZHEN EMTEK CO., LTD.

Standard	☐ IEC 61000-4-4 ☑ EN 61000-4-4	Result: ☑ PASS / ☐FAIL

Applicant : GlobTek, Inc.

EUT : Adaptor

M/N : GT(M)100P12048-X.X

Input Voltage: AC 230 V 50 HZ

Criterion : B

Ambient Condition : 22 ℃ 50% RH

Operation Mode: Full Load

Line : ☑ AC Mains	Line : ☐ Signal ☐ I/O Cable
Coupling : ☑ Direct	Coupling : ☐ Capacitive
Test Time : 120s	

Line	Test Voltage	Result (+)	Result (-)
L	1KV/2KV	PASS	PASS
N	1KV/2KV	PASS	PASS
PE	1KV/2KV	PASS	PASS
L、N	1KV/2KV	PASS	PASS
L、PE	1KV/2KV	PASS	PASS
N、PE	1KV/2KV	PASS	PASS
L、N、PE	1KV/2KV	PASS	PASS
Signal Line			
DC Line			

Remark:

Test Equipment	Burst Tester Model : PEFT 4010

Reviewer: 

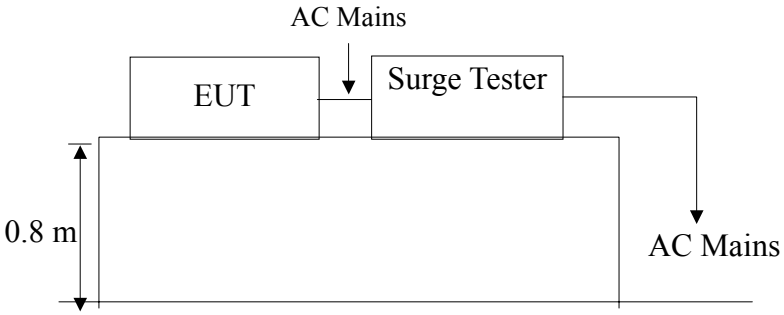
10. SURGE IMMUNITY TEST

10.1 Block Diagram of Test Setup

10.1.1 Block Diagram of the EUT

(EUT: Adaptor)

10.1.2. Surge Test Setup



10.2 Test Standard

EN55024: 1998+A1: 2001+A2: 2003, EN 60601-1-2: 2001 (EN61000-4-5: 2001)
Severity Level 3**:** Line to Line: 1.0KV,Line to Earth: 2.0KV

10.3 Severity Levels and Performance Criterion

10.3.1.Severity level

Severity Level	Open-Circuit Test Voltage KV
1	0.5
2	1.0
3	2.0
4	4.0
*	Special

10.3.2 Performance criterion **: B**

10.4 EUT Configuration

The configuration of EUT is listed in Section 3.4.

10.5 Operating Condition of EUT

10.5.1 Setup the EUT as shown in Section 10.1.

10.5.2.Turn on the power of all equipments.

10.5.3.Let the EUT work in test mode (Full Load) and measure it.

10.6 Test Procedure

1) Set up the EUT and test generator as shown on Section 10.1.2.
2) For line to line coupling mode, provide a 1.0 KV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.
3) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
4) Different phase angles are done individually.
5) Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

10.7 Test Result

PASS.

Please refer to the following page.

Surge Immunity Test Result

SHENZHEN EMTEK CO., LTD.

Applicant	: GlobTek, Inc.		
EUT	: Adaptor	Test Date	: September 20, 2005
M/N	: GT(M)9100P12048-X.X, GT(M)9100P12024-X.X, GT(M)9100P10012-X.X	Temperature	: 22℃
Power Supply	: AC 230V / 50Hz	Humidity	: 50%
Test Mode	: Full Load	Criterion	: B
Test Engineer	: KYLE		

Location	Polarity	Phase Angle	Number of Pulse	Pulse Voltage (KV)	Result
L-N	+	0°	5	1.0	PASS
	+	90°	5	1.0	PASS
	+	180°	5	1.0	PASS
	+	270°	5	1.0	PASS
	-	0°	5	1.0	PASS
	-	90°	5	1.0	PASS
	-	180°	5	1.0	PASS
	-	270°	5	1.0	PASS
L-PE	+	0°	5	2.0	PASS
	+	90°	5	2.0	PASS
	+	180°	5	2.0	PASS
	+	270°	5	2.0	PASS
	-	0°	5	2.0	PASS
	-	90°	5	2.0	PASS
	-	180°	5	2.0	PASS
	-	270°	5	2.0	PASS
N-PE	+	0°	5	2.0	PASS
	+	90°	5	2.0	PASS
	+	180°	5	2.0	PASS
	+	270°	5	2.0	PASS
	-	0°	5	2.0	PASS
	-	90°	5	2.0	PASS
	-	180°	5	2.0	PASS
	-	270°	5	2.0	PASS

Remark:

Test Equipment :
Surge Tester Psurge4.1

Reviewer: Phenix

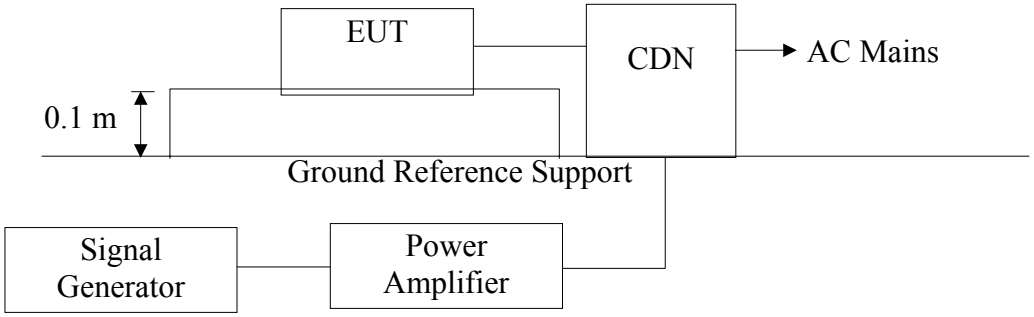
11. INJECTED CURRENTS SUSCEPTIBILITY TEST

11.1 Block Diagram of Test Setup

11.1.1 Block Diagram of the EUT

(EUT: Adaptor)

11.1.2 Block Diagram of Test Setup



11.2 Test Standard

EN55024: 1998+A1: 2001+A2: 2003, EN 60601-1-2: 2001 (EN61000-4-6: 2001, Severity Level: Level 3, 3V (rms), (0.15MHz ~ 80MHz)

11.3 Severity Levels and Performance Criterion

11.3.1 Severity level

Level	Field Strength V
1	1
2	3
3	10
X	Special

11.3.2 Performance criterion**: A**

11.4 EUT Configuration

The configuration of EUT is listed in Section 3.4.

11.5 Operating Condition of EUT

11.5.1 Setup the EUT as shown in Section 11.1.

11.5.2 Turn on the power of all equipments.

11.5.3 Let the EUT work in test mode (Full Load) and measure it.

11.6 Test Procedure

1) Set up the EUT, CDN and test generators as shown on Section 11.1.2.
2) Let the EUT work in test mode and measure it.
3) The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
4) The disturbance signal described below is injected to EUT through CDN.
5) The EUT operates within its operational mode(s) under intended climatic conditions after power on.
6) The frequency range is swept from 150KHz to80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1KHz sine wave.
7) The rate of sweep shall not exceed $1.5*10^{-3}$decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
8) Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

11.7Test Results

PASS.

Please refer to the following page.

Injected Currents Susceptibility Test Results

SHENZHEN EMTEK CO., LTD.

Applicant	: GlobTek, Inc.		
EUT	: Adaptor	Test Date	: September 20, 2005
M/N	: GT(M)100P12048-X.X	Temperature	: 22℃
Power Supply	: AC 230V / 50Hz	Humidity	: 58%
Test Mode	: Full Load	Test Engineer	: KYLE

Frequency Range (MHz)	Injected Position	Strength (Unmodulated)	Criterion	Result
0.15 ~ 80	AC Mains	3V	A	PASS

Test Mode :

Frequency Range (MHz)	Injected Position	Strength (Unmodulated)	Criterion	Result

Remark **:** 1. Modulation Signal**:**1KHz 80% AM
Measurement Equipment :
Simulator: CWS 500 (SWITZERLAND EMTEST)
CDN : ☐ CDN-M2 (SWITZERLAND EMTEST)
☑ CDN-M3 (SWITZERLAND EMTEST)

Note**:**

Reviewer**:** 

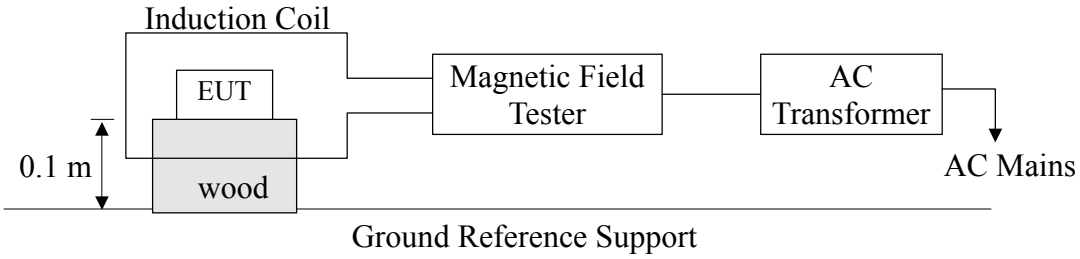
12. MAGNETIC FIELD SUSCEPTIBILITY TEST

12.1 Block Diagram of Test

12.1.1 Block diagram of test setup

(EUT: Adaptor)

12.1.2 Magnetic field test setup



(EUT: Adaptor)

12.2 Test Standard

EN55024: 1998+A1: 2001+A2: 2003, EN 60601-1-2: 2001 (EN61000-4-8: 2001, Severity Level: Level 2, 3A / m)

12.3 Severity Levels and Performance Criterion

12.3.1 Severity Levels

Level	Field Strength A/m
1	1
2	3
3	10
4	30
5	100
X	Special

12.3.2 Performance Criterion : **A**

12.4 EUT Configuration on Test

The configuration of the EUT is same as Section 3.4.

12.5 Test Procedure

The EUT is placed in the middle of an induction coil (1*1m), under which is a 1*1*0.1m (high) table, this small table is also placed on a larger table, 0.8 m above the ground. Both horizontal and vertical polarization of the induction coil is set on test, so that each side of the EUT is affected by the magnetic field. Also can reach the same aim by change the position of the EUT.

12.6Test Results

PASS.

Please refer to the following page.

Magnetic Field Immunity Test Result

SHENZHEN EMTEK CO., LTD.

Standard	☐ IEC 61000-4-8 ☑ EN 61000-4-8	Result: ☑ Pass / ☐ Fail

Applicant : GlobTek, Inc.

EUT : Adaptor M/N: GT(M)9100P12048-X.X

Input Voltage : 230V / 50Hz

Date of Test : September 20, 2005 Test Engineer: KYLE

Ambient Condition : Temp : 22℃ Humid: 58%

Criterion : A

Operation Mode : Full Load

Test Level (A/M)	Testing Duration	Coil Orientation	Criterion	Result
3	5 mins	X	A	PASS
3	5 mins	Y	A	PASS
3	5 mins	Z	A	PASS

Operation Mode :

Test Level (A/M)	Testing Duration	Coil Orientation	Criterion	Result

Test Equipment	Magnetic Field Test : HEAFELY MAG 100.1

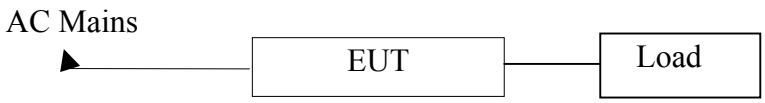
Note:

Reviewer : Phenix

13. VOLTAGE DIPS AND INTERRUPTIONS TEST

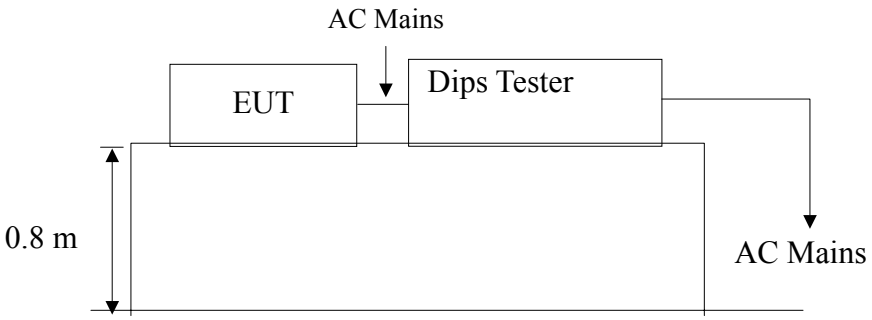
13.1 Block Diagram of Test Setup

13.1.1 Block Diagram of the EUT



(EUT: Adaptor)

13.1.2 Dips Test Setup



13.2 Test Standard

EN55024: 1998+A1: 2001+A2: 2003, EN 60601-1-2: 2001 (EN61000-4-11: 2001)

13.3 Severity Levels and Performance Criterion

13.3.1 Severity level

Test Level %UT	Voltage dip and short interruptions %UT	Duration (in period)
0	100	0.5 1 5 10 25 50 *
40	60	
70	30	

13.3.2 Performance criterion **: A&B**

13.4 EUT Configuration

The configuration of EUT is listed in Section 3.4.

13.5 Operating Condition of EUT

13.5.1 Setup the EUT as shown in Section 13.1.

13.5.2 Turn on the power of all equipments.

13.5.3 Let the EUT work in test mode (Full Load) and measure it.

13.6 Test Procedure

1) Set up the EUT and test generator as shown on Section 13.1.2.
2) The interruption is introduced at selected phase angles with specified duration.
3) Record any degradation of performance.

13.7 Test Result

PASS.

Please refer to the following page.

Voltage Dips And Interruptions Test Results

SHENZHEN EMTEK CO., LTD.

Applicant	: GlobTek, Inc.		
EUT	: Adaptor	Test Date	: September 20, 2005
M/N	: GT(M)100P12048-X.X	Temperature	: 22℃
Power Supply	: 230V / 50Hz	Humidity	: 50%
Test Mode	: Full Load	Test Engineer	: KYLE

Test Level % U_T	Voltage Dips & Short Interruptions % U_T	Duration (in periods)	Criterion ☐A ☑B ☑C ☐D	Result P=PASS F=Fail
0	100	0.5P	B	P
40	60	5P	B	P
70	30	25P	B	P
0	100	5S	C	P

Test Mode : _____

Test Level % U_T	Voltage Dips & Short Interruptions % U_T	Duration (in periods)	Criterion ☐A ☐B ☐C ☐D	Result P=PASS F=FAIL

Note:

Reviewer: Phenix

14. PHOTOGRAPH

14.1 Photo of Conducted Emission Measurement

14.2 Photo of Radiation Emission Measurement

14.3 Photos of Harmonic / Flicker Measurement

14.4 Photos of Electrostatic Discharge Test

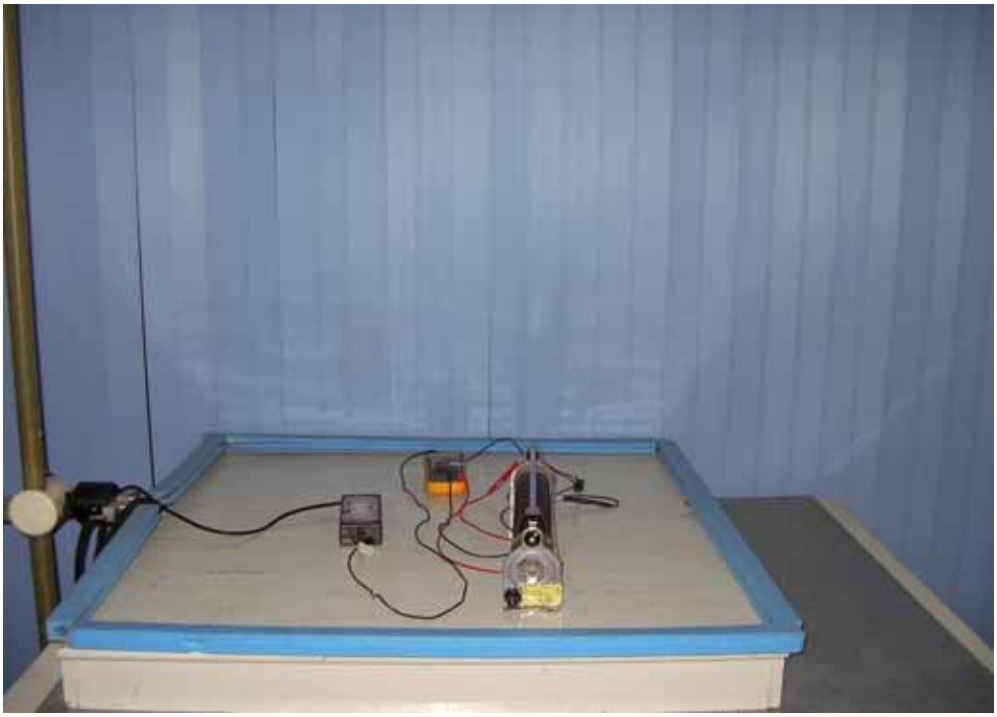
14.5 Photos of RF Field Strength susceptibility Test

14.6 Photo of Electrical Fast Transient /Burst Test

14.7 Photo of Surge Test

14.8 Photo of Injected Currents Susceptibility Test

14.9 Photo of Magnetic Field Immunity Test



14.10 Photo of Voltage Dips and Interruption Immunity Test

APPENDIX I

CONDUCTION EMISSION STANDARD EN55022B

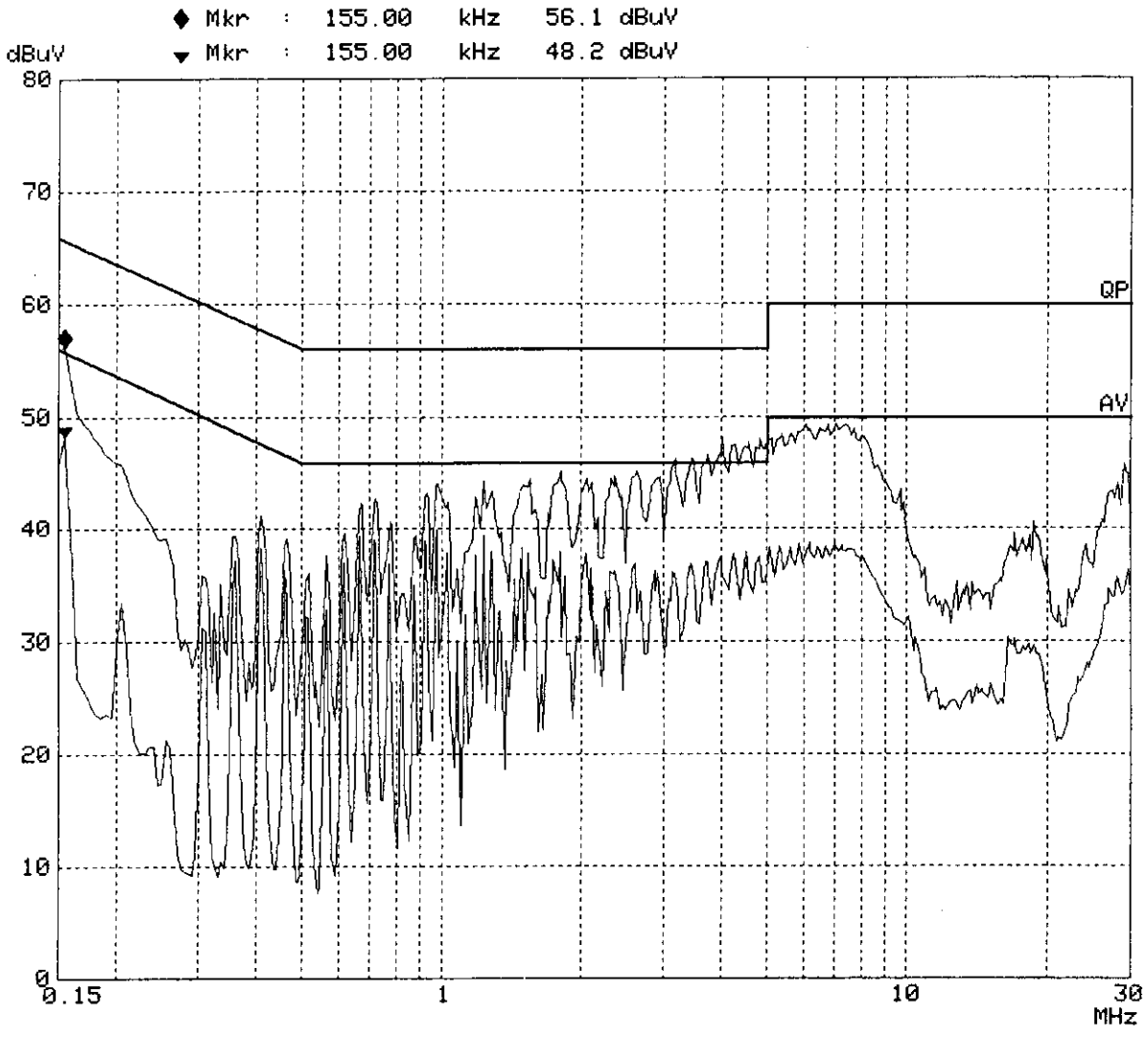
EUT: Adaptor M/M:GT(M)9100P12048-X.X
Manuf: GlobTek
Op Cond: FULL LOAD
Operator: Huangyu
Test Spec: L 230V/50Hz
Comment: Tem22C Humi50%
Date: 19. Sep 05 19:36

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	2M	5k	9k	PK+AV	20ms	AUTO LN	OFF
2M	10M	10k	9k	PK+AV	10ms	AUTO LN	OFF
10M	30M	25k	9k	PK+AV	1ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	9k	30M	CONFAC1

Final Measurement: x QP / + AV
Meas Time: 1 s



CONDUCTION EMISSION STANDARD EN55022B

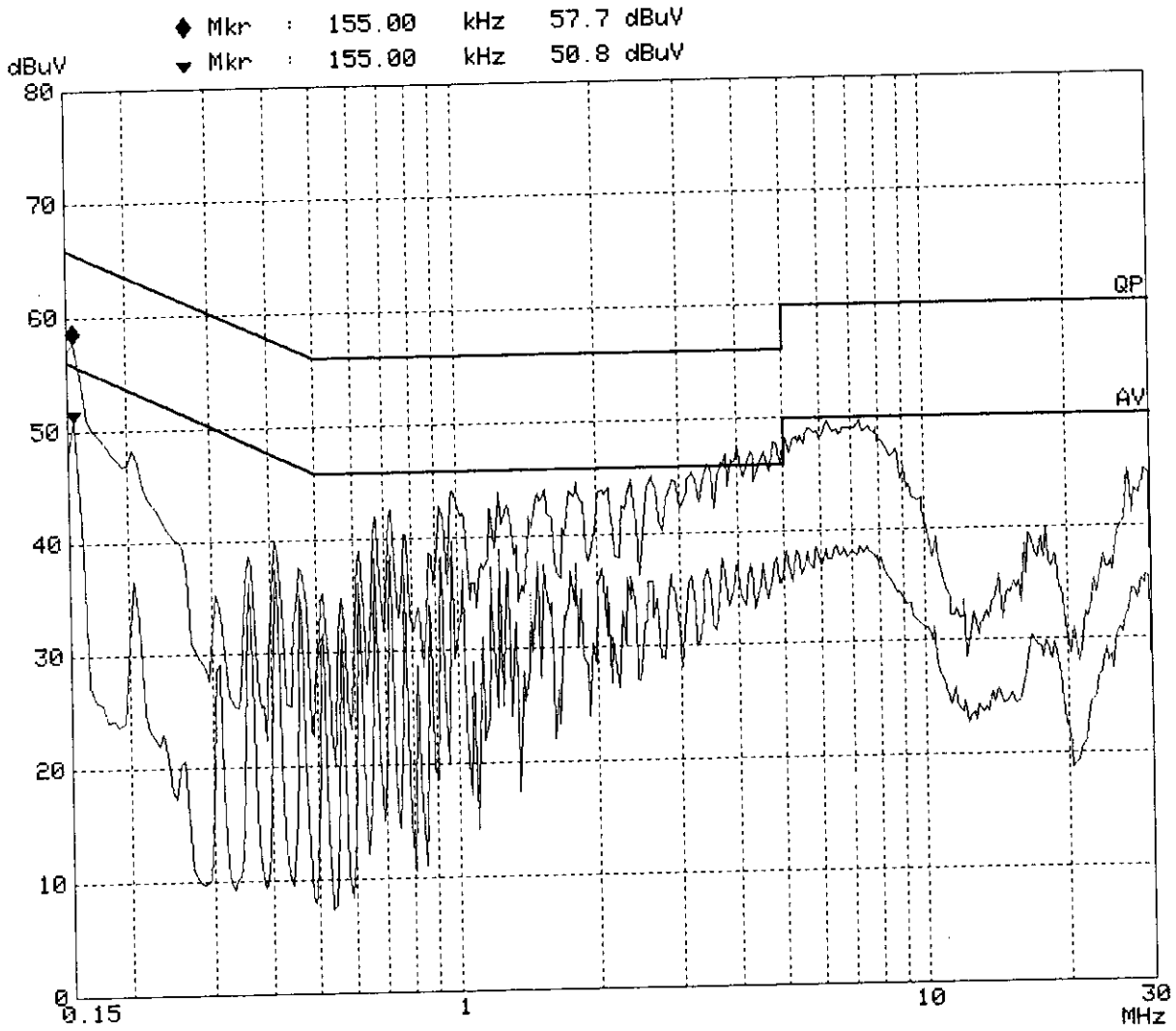
EUT: Adaptor M/M:GT(M)9100P12048-X.X
Manuf: GlobTek
Op Cond: FULL LOAD
Operator: Huangyu
Test Spec: N 230V/50Hz
Comment: Tem22C Humi50%
Date: 19. Sep 05 20:35

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	2M	5k	9k	PK+AV	20ms	AUTO LN	OFF
2M	10M	10k	9k	PK+AV	10ms	AUTO LN	OFF
10M	30M	25k	9k	PK+AV	1ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	9k	30M	CONFAC1

Final Measurement: x QP / + AV
Meas Time: 1 s



CONDUCTION EMISSION STANDARD EN55011

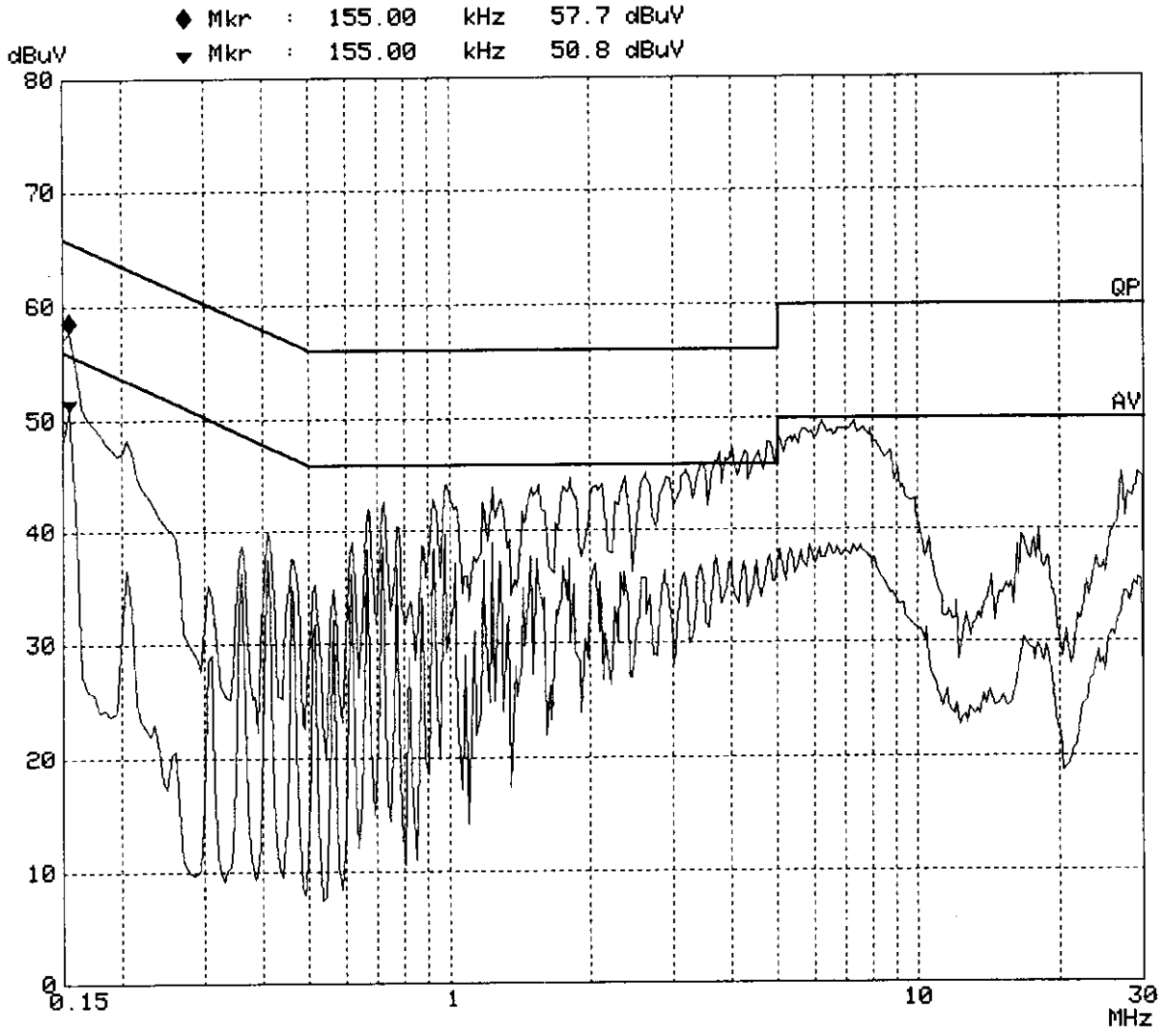
EUT: Adaptor M/N:GT(M)9100P12048-X.X
Manuf: GlobTek
Op Cond: FULL LOAD
Operator: huangyu
Test Spec: N 230V/50Hz
Comment: Tem22C Humi50%
Date: 19. Sep 05 20:35

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	2M	5k	9k	PK+AV	20ms	AUTO LN	OFF
2M	10M	10k	9k	PK+AV	10ms	AUTO LN	OFF
10M	30M	25k	9k	PK+AV	1ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	9k	30M	CONFAC1

Final Measurement: x QP / + AV
Meas Time: 1 s



CONDUCTION EMISSION STANDARD EN55011

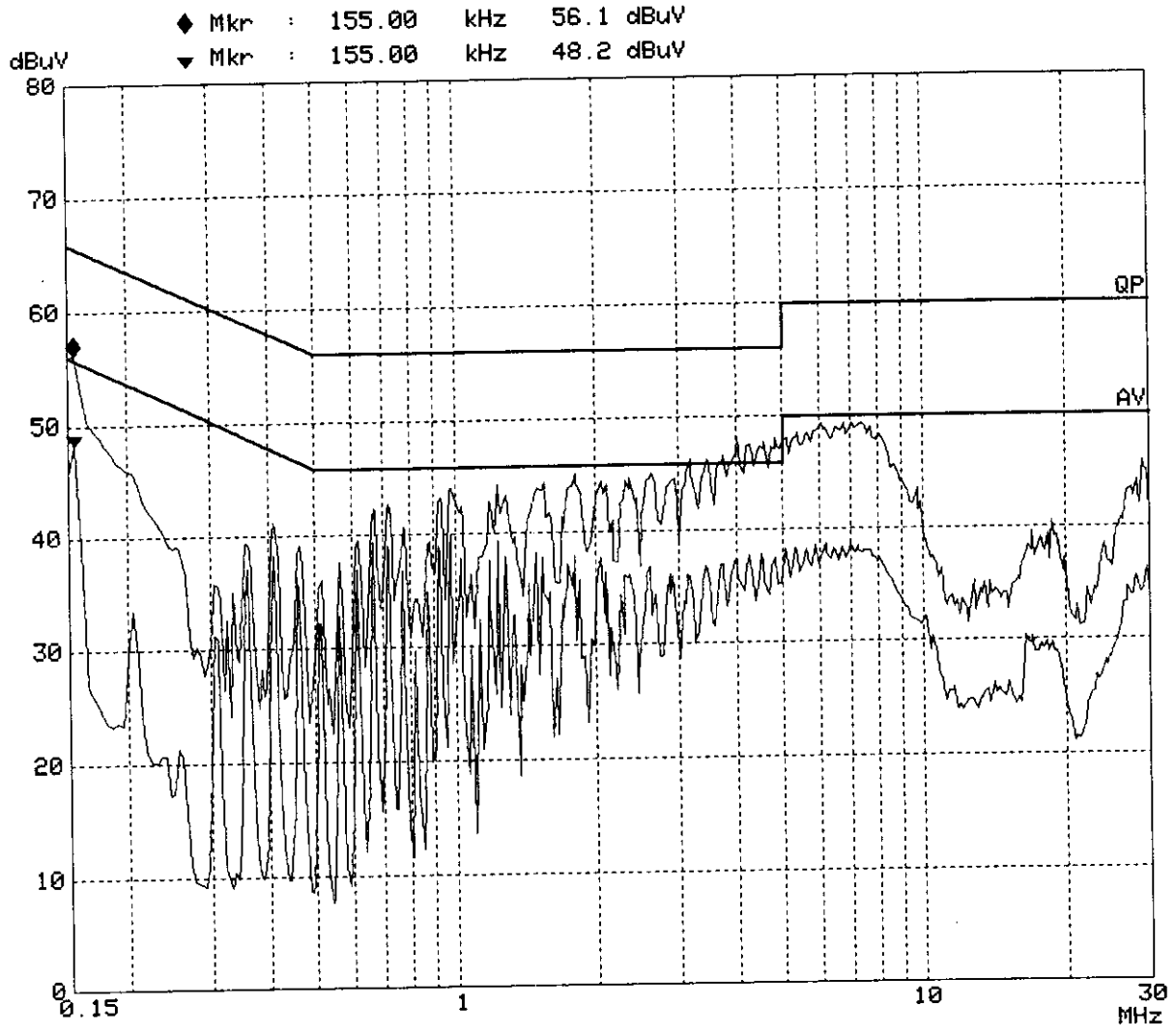
EUT: Adaptor M/N:GT(M)9100P12048-X.X
Manuf: GlobTek
Op Cond: FULL LOAD
Operator: huangyu
Test Spec: L 230V/50Hz
Comment: Tem22C Humi50%
Date: 19. Sep 05 19:36

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	2M	5k	9k	PK+AV	20ms	AUTO LN	OFF
2M	10M	10k	9k	PK+AV	10ms	AUTO LN	OFF
10M	30M	25k	9k	PK+AV	1ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	9k	30M	CONFAC1

Final Measurement: x QP / + AV
Meas Time: 1 s



CONDUCTION EMISSION STANDARD EN55011

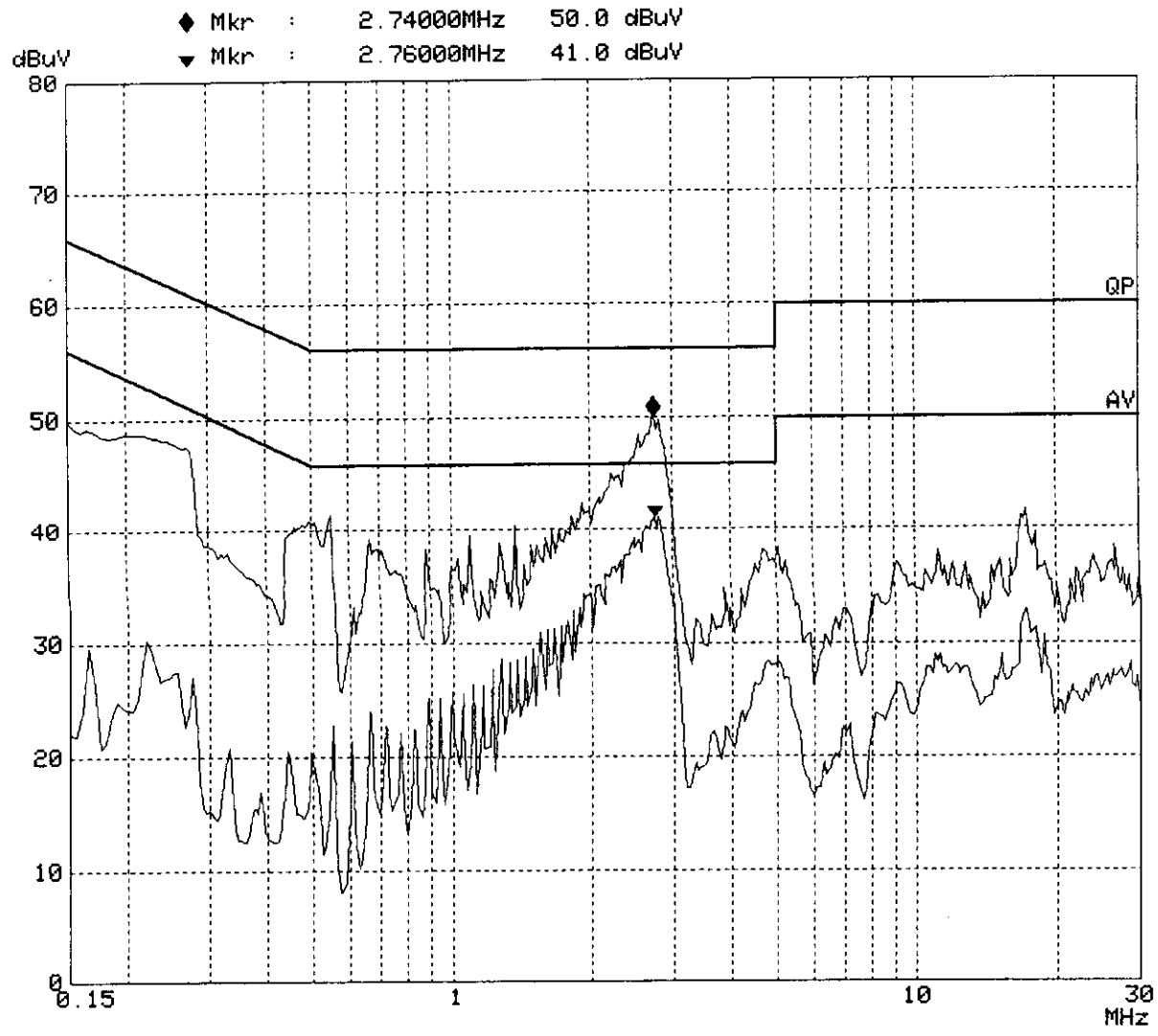
EUT: Adaptor M/N:GT(M)9100P10012-X.X
Manuf: GlobTek
Op Cond: FULL LOAD
Operator: huangyu
Test Spec: L 230V/50Hz
Comment: Tem22C Humi50%
Date: 19. Sep 05 18:32

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	2M	5k	9k	PK+AV	20ms	AUTO LN	OFF
2M	10M	10k	9k	PK+AV	10ms	AUTO LN	OFF
10M	30M	25k	9k	PK+AV	1ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	9k	30M	CONFAC1

Final Measurement: x QP / + AV
Meas Time: 1 s



CONDUCTION EMISSION STANDARD EN55011

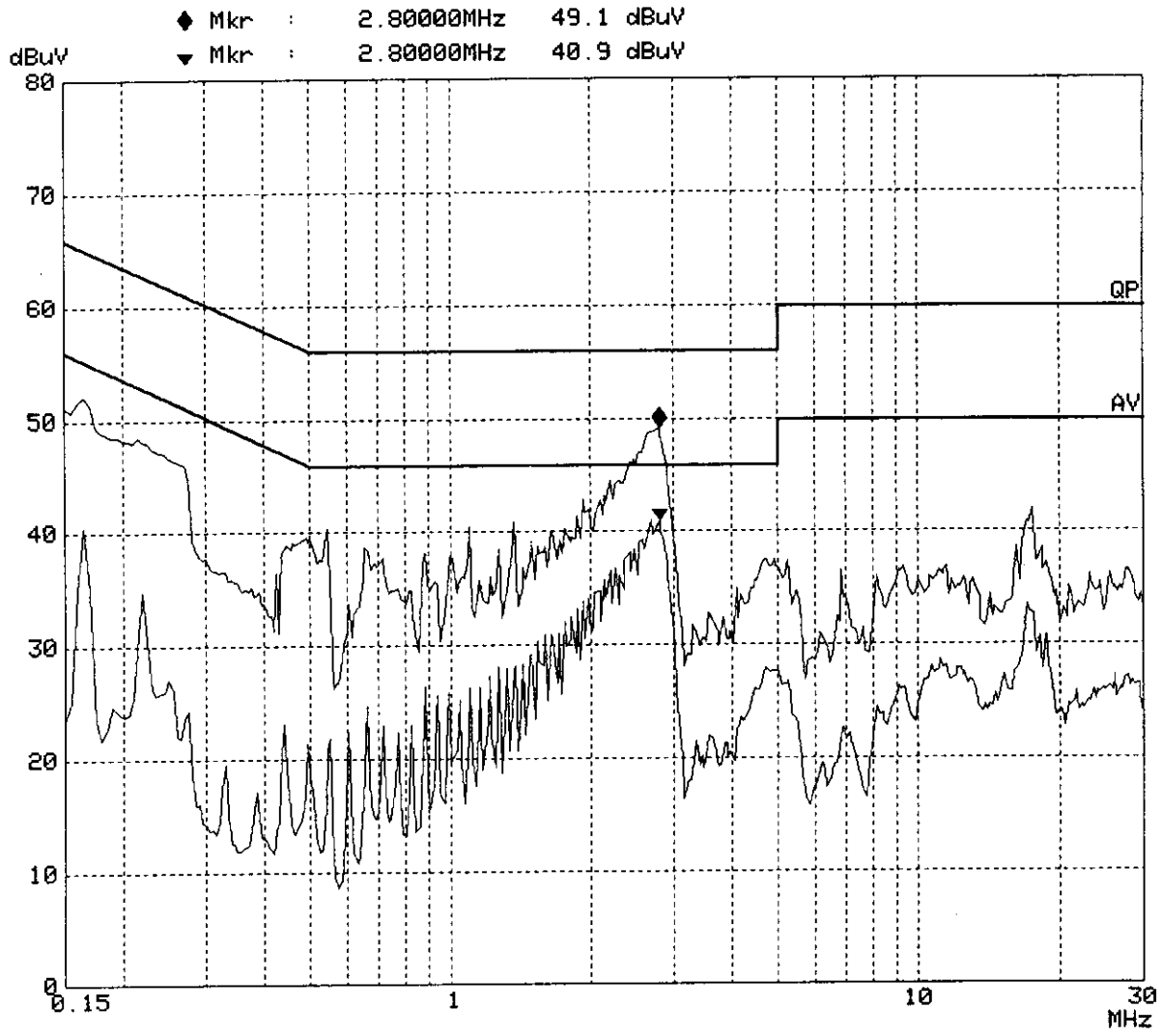
EUT: Adaptor M/N:GT(M)9100P10012-X.X
Manuf: GlobTek
Op Cond: FULL LOAD
Operator: huangyu
Test Spec: N 230V/50Hz
Comment: Tem22C Humi50%
Date: 19. Sep 05 18:24

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	2M	5k	9k	PK+AV	20ms	AUTO LN	OFF
2M	10M	10k	9k	PK+AV	10ms	AUTO LN	OFF
10M	30M	25k	9k	PK+AV	1ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	9k	30M	CONFAC1

Final Measurement: x QP / + AV
Meas Time: 1 s



CONDUCTION EMISSION STANDARD EN55022B

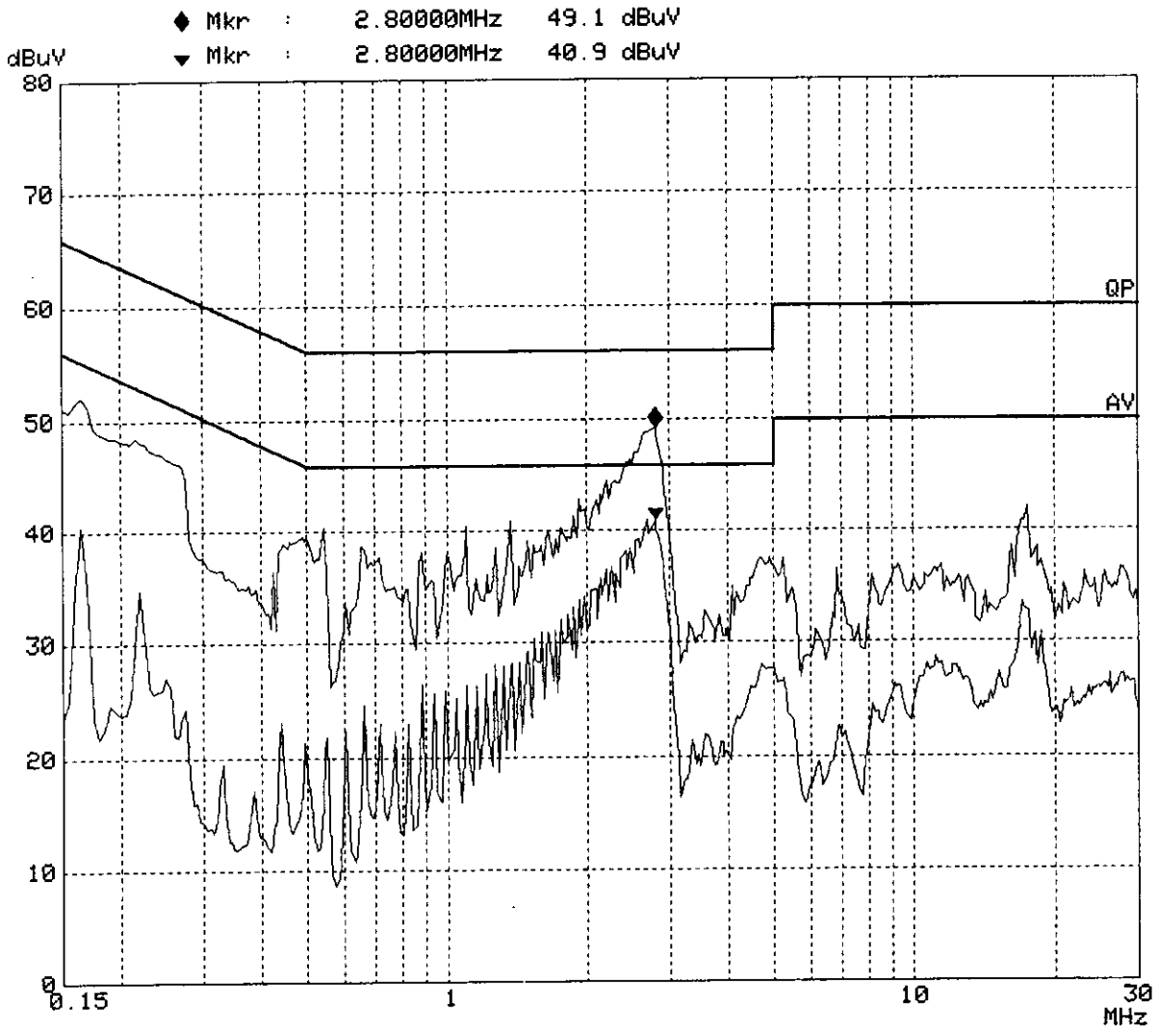
EUT: Adaptor M/M:GT(M)9100P10012-X.X
Manuf: GlobTek
Op Cond: FULL LOAD
Operator: Huangyu
Test Spec: L 230V/50Hz
Comment: Tem22C Humi50%
Date: 19. Sep 05 18:24

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	2M	5k	9k	PK+AV	20ms	AUTO LN	OFF
2M	10M	10k	9k	PK+AV	10ms	AUTO LN	OFF
10M	30M	25k	9k	PK+AV	1ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	9k	30M	CONFAC1

Final Measurement: x QP / + AV
Meas Time: 1 s



CONDUCTION EMISSION STANDARD EN55022B

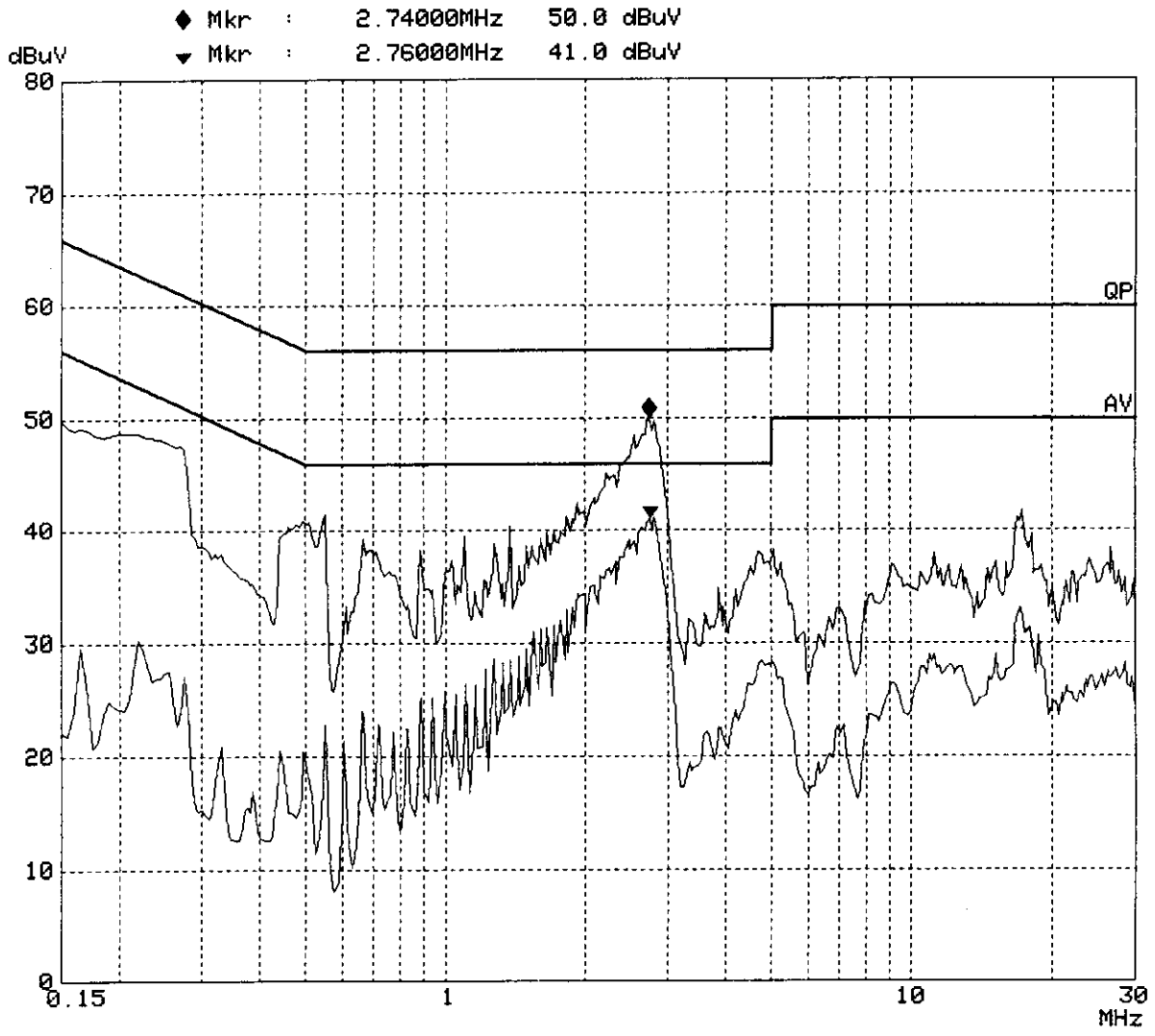
EUT: Adaptor M/N:GT(M)9100P10012-X.X
Manuf: GlobTek
Op Cond: FULL LOAD
Operator: huangyu
Test Spec: N 230V/50Hz
Comment: Tem22C Humi50%
Date: 19. Sep 05 18:32

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	2M	5k	9k	PK+AV	20ms	AUTO LN	OFF
2M	10M	10k	9k	PK+AV	10ms	AUTO LN	OFF
10M	30M	25k	9k	PK+AV	1ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	9k	30M	CONFAC1

Final Measurement: x QP / + AV
Meas Time: 1 s



CONDUCTION EMISSION STANDARD EN55022B

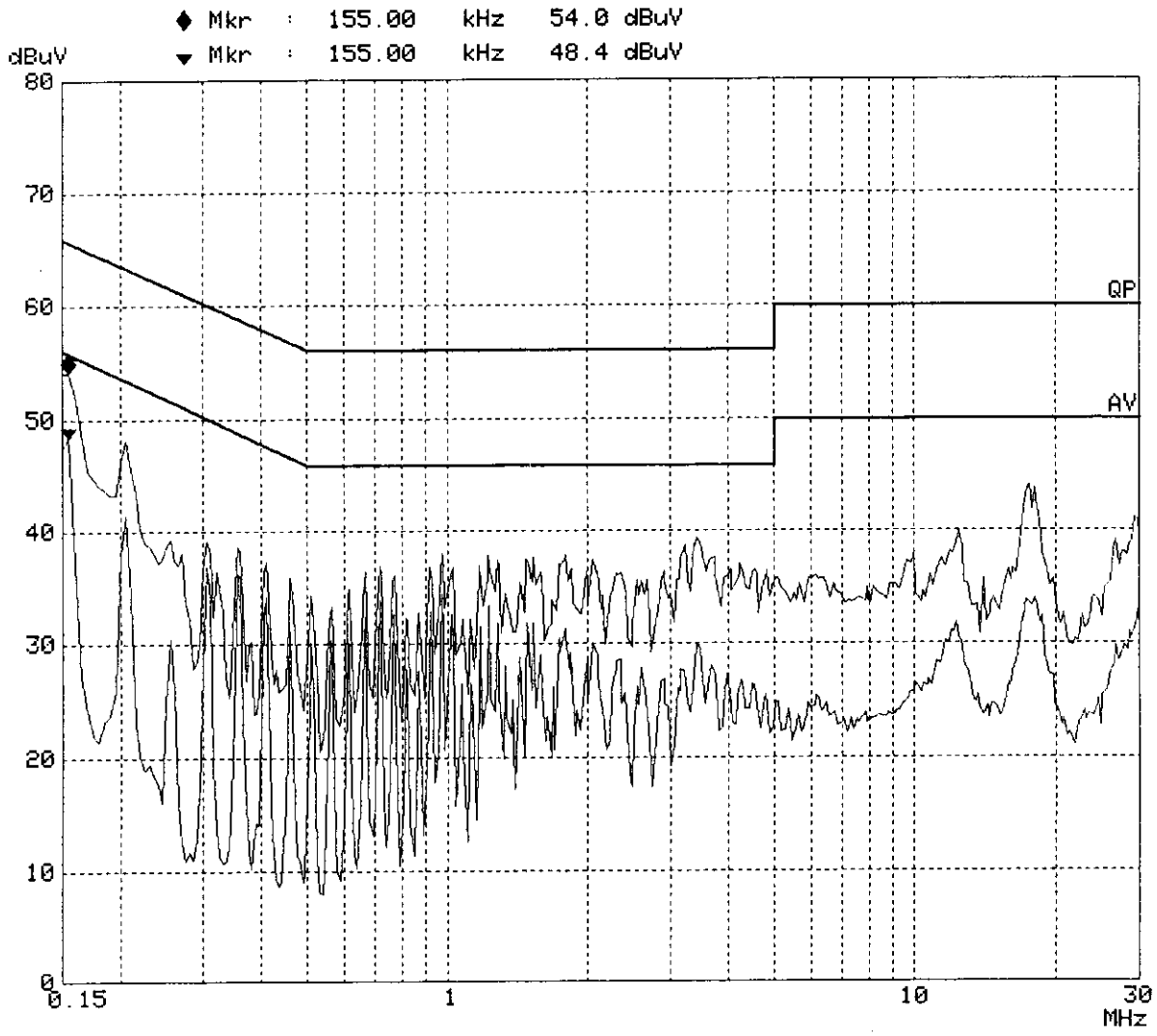
EUT: Adaptor M/M:GT(M)9100P12024-X.X
Manuf: GlobTek
Op Cond: FULL LOAD
Operator: Huangyu
Test Spec: L 230V/50Hz
Comment: Tem22C Humi50%
Date: 19. Sep 05 18:40

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	2M	5k	9k	PK+AV	20ms	AUTO	LN OFF
2M	10M	10k	9k	PK+AV	10ms	AUTO	LN OFF
10M	30M	25k	9k	PK+AV	1ms	AUTO	LN OFF

Transducer No.	Start	Stop	Name
1	9k	30M	CONFAC1

Final Measurement: x QP / + AV
Meas Time: 1 s



CONDUCTION EMISSION STANDARD EN55022B

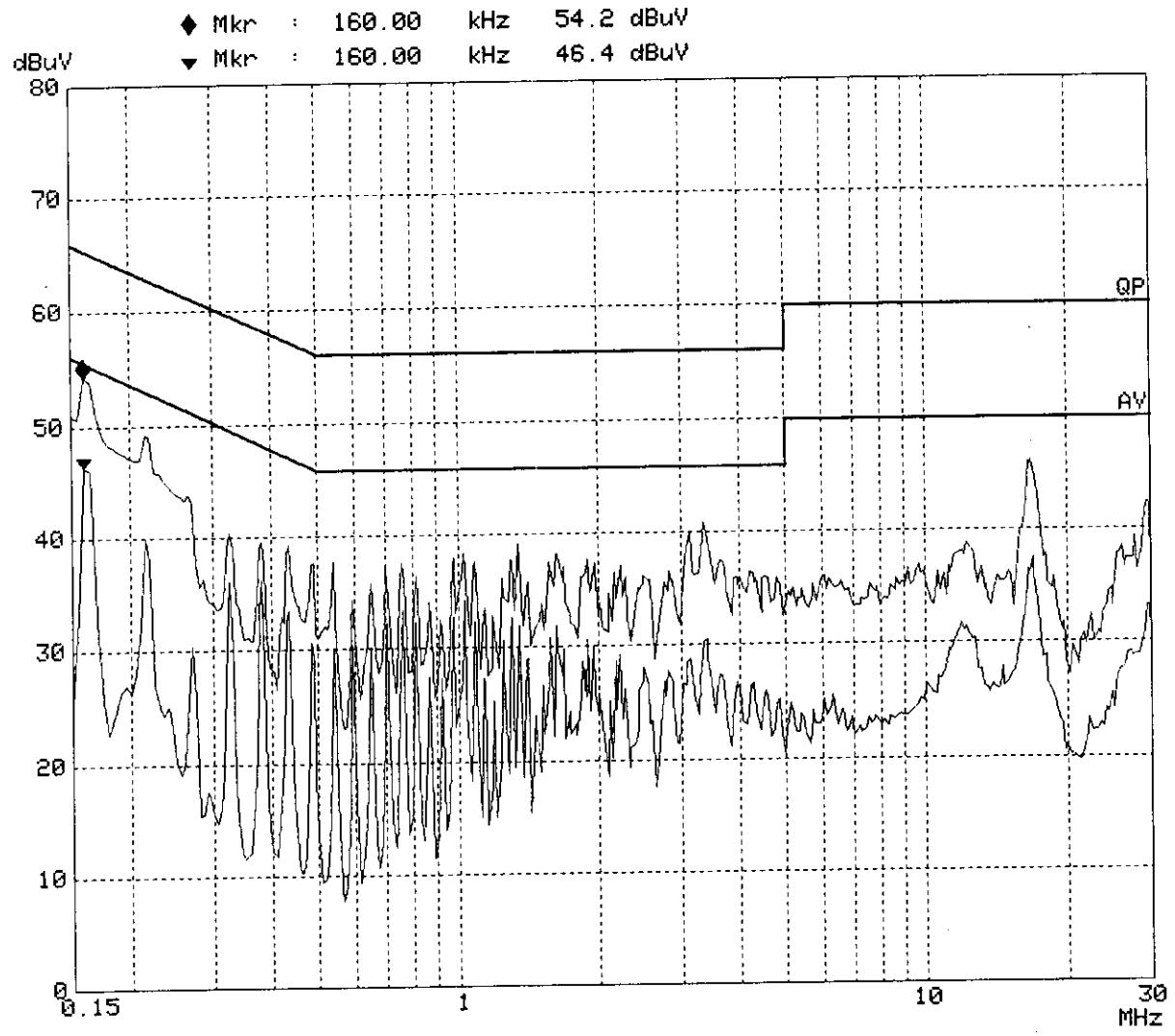
EUT: Adaptor M/M:GT(M)9100P12024-X.X
Manuf: GlobTek
Op Cond: FULL LOAD
Operator: Huangyu
Test Spec: N 230V/50Hz
Comment: Tem22C Humi50%
Date: 20. Sep 05 08:51

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	2M	5k	9k	PK+AV	20ms	AUTO LN	OFF
2M	10M	10k	9k	PK+AV	10ms	AUTO LN	OFF
10M	30M	25k	9k	PK+AV	1ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	9k	30M	CONFAC1

Final Measurement: x QP / + AV
Meas Time: 1 s



CONDUCTION EMISSION STANDARD EN55011

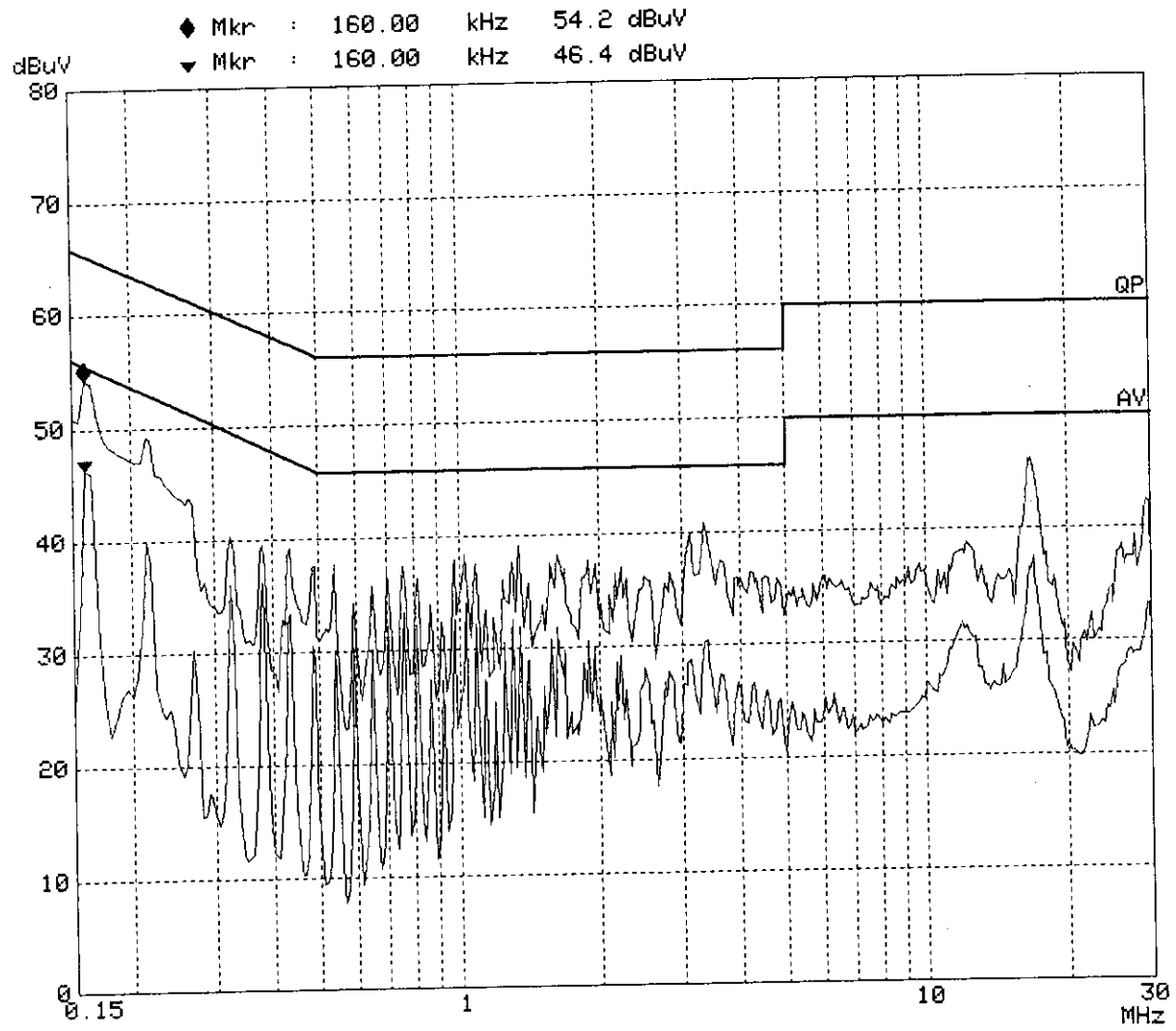
EUT: Adaptor M/N:GT(M)9100P12024-X.X
Manuf: GlobTek
Op Cond: FULL LOAD
Operator: huangyu
Test Spec: N 230V/50Hz
Comment: Tem22C Humi50%
Date: 20. Sep 05 08:51

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	2M	5k	9k	PK+AV	20ms	AUTO LN	OFF
2M	10M	10k	9k	PK+AV	10ms	AUTO LN	OFF
10M	30M	25k	9k	PK+AV	1ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	9k	30M	CONFAC1

Final Measurement: x QP / + AV
Meas Time: 1 s



CONDUCTION EMISSION STANDARD EN55011

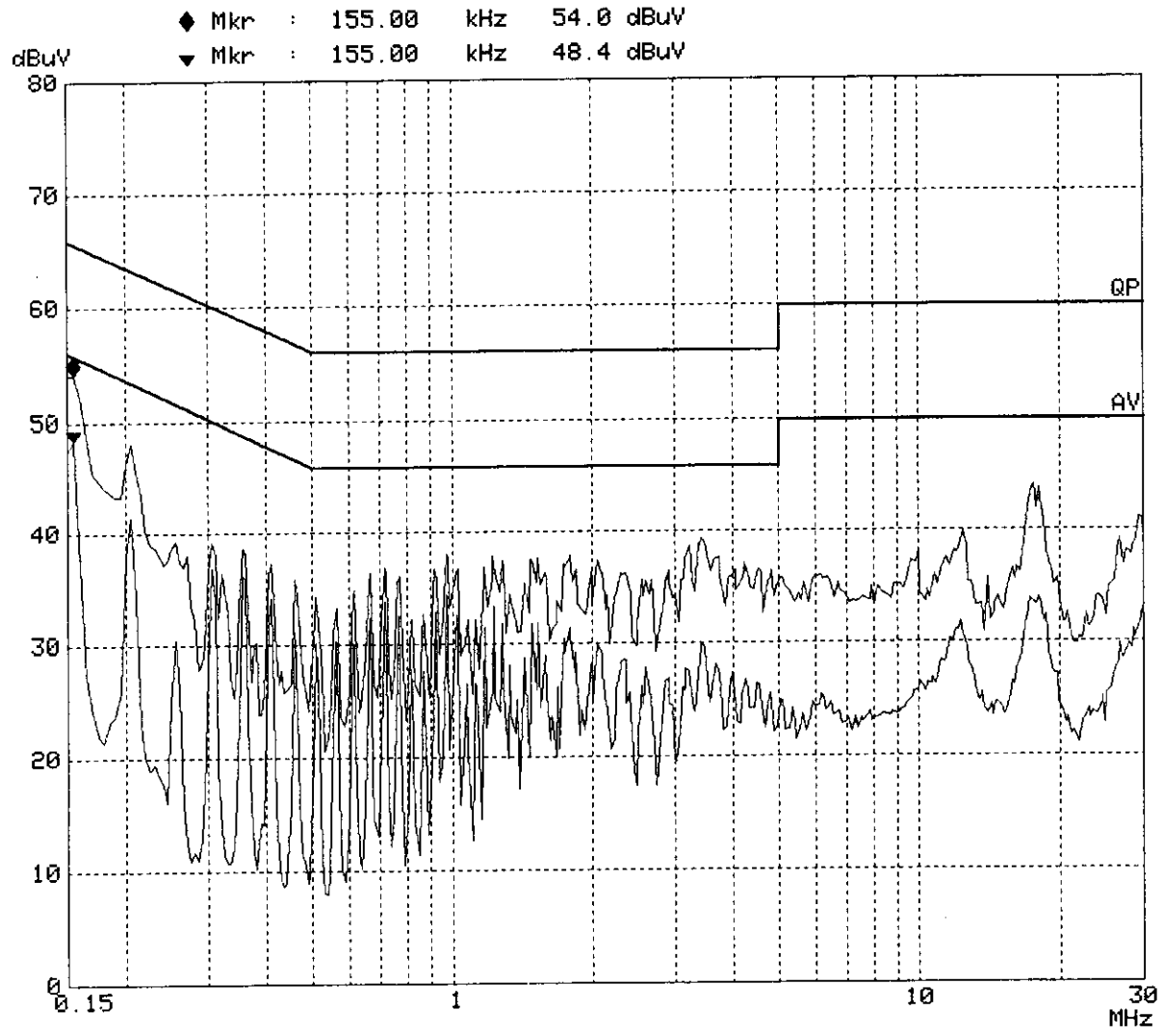
EUT: Adaptor M/N:GT(M)9100P12024-X.X
Manuf: GlobTek
Op Cond: FULL LOAD
Operator: huangyu
Test Spec: L 230V/50Hz
Comment: Tem22C Humi50%
Date: 19. Sep 05 18:40

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	2M	5k	9k	PK+AV	20ms	AUTO LN	OFF
2M	10M	10k	9k	PK+AV	10ms	AUTO LN	OFF
10M	30M	25k	9k	PK+AV	1ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	9k	30M	CONFAC1

Final Measurement: x QP / + AV
Meas Time: 1 s



APPENDIX II

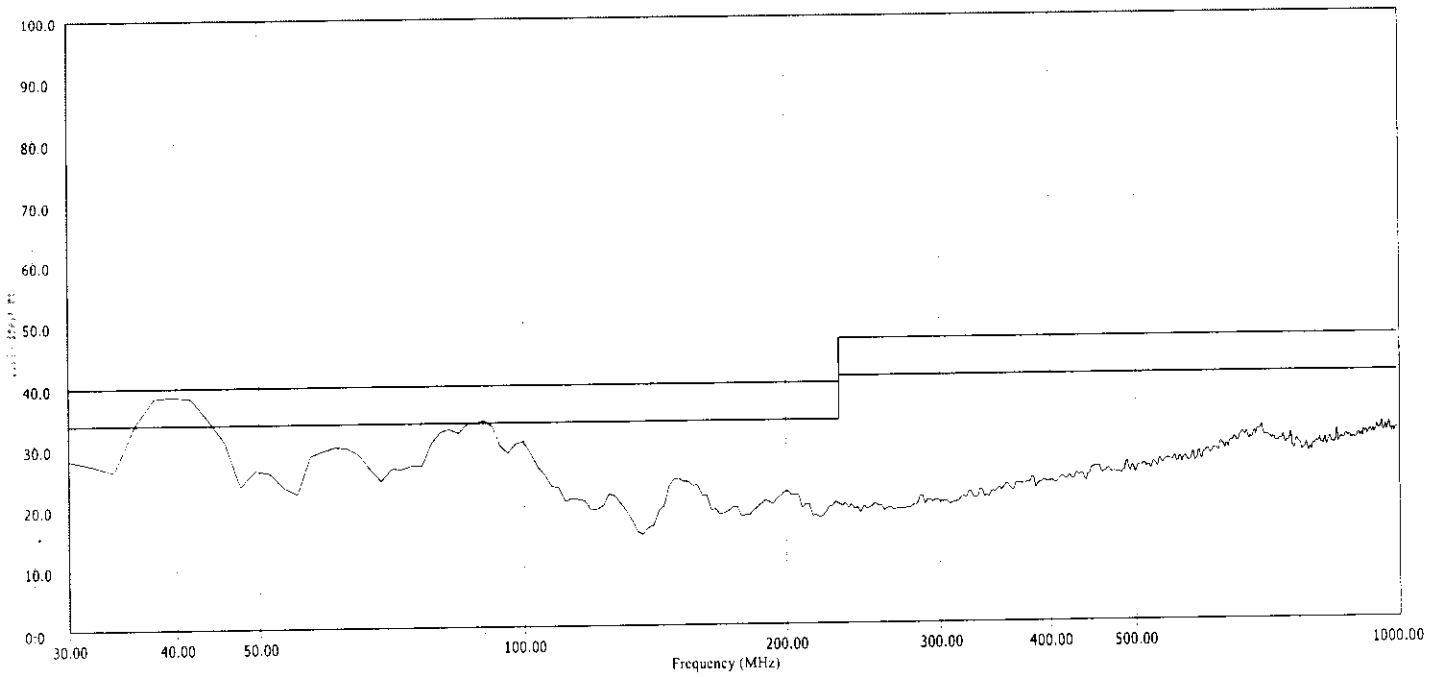
EMTEK

Shenzhen EMTEK Co., Ltd.

Bldg 69, Majialong,Taipinyang Industry Zone,Nanshan District,Shenzhen Guangdong,China
Tel: (0755)26954280 Fax:(0755)26954282

File# : Globtek
Site : 3M CHAMBER
Limit : CISPR CLASS_B_QP
EUT : Adaptor M/N:GT(M)9100P12048-X.X
Power : AC 230V/50Hz
Note : FULL LOAD

Time : 2005/09/20 - 21:05
Probe : VULB9163 - VERTICAL
Margin : 6
Std : 30
Trace :



Flag	Mark	Freq (MHz)	Measure Level (dB)	Reading Level (dBuV)	Over Limit (dBuV/m)	Limit (dBuV/m)	Probe Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type

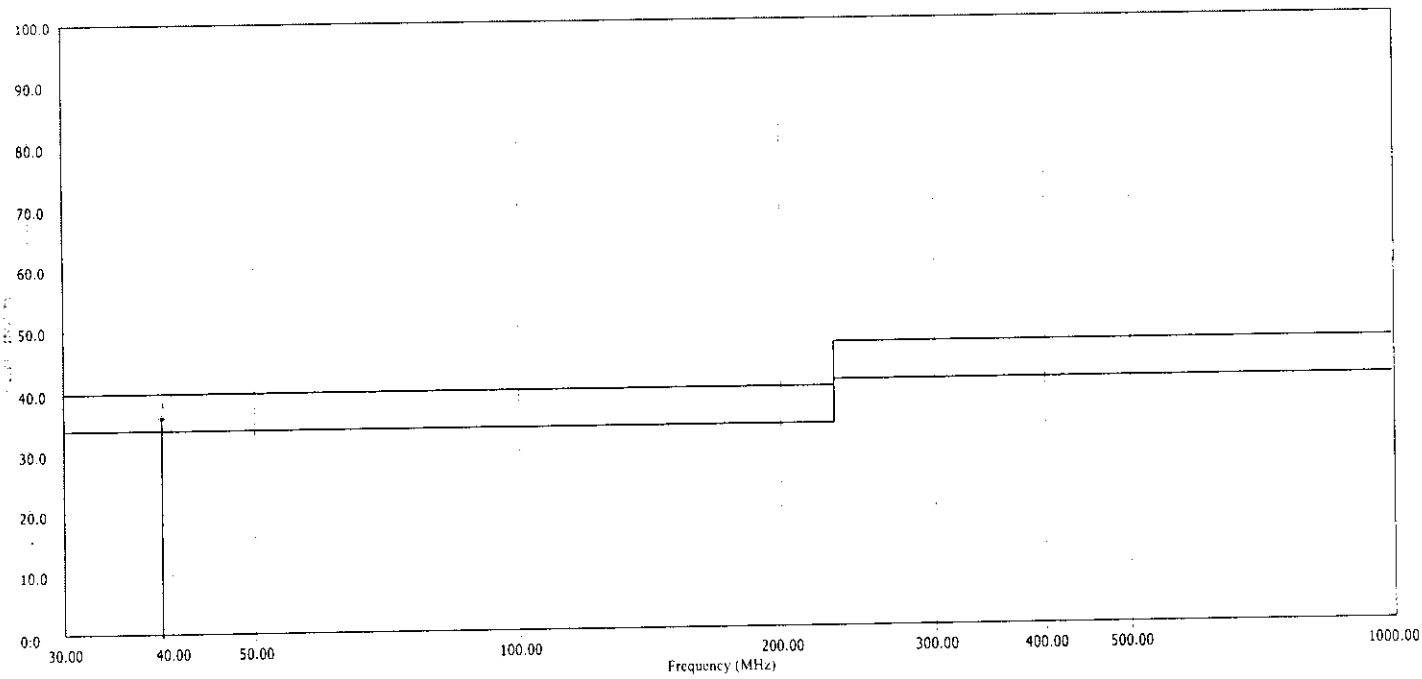
EMTEK

Shenzhen EMTEK Co., Ltd.

Bldg 69, Majialong,Taipinyang Industry Zone,Nanshan District,Shenzhen Guangdong,China
Tel: (0755)26954280 Fax:(0755)26954282

File# : Globtek
Site : 3M CHAMBER
Limit : CISPR CLASS_B_QP
EUT : Adaptor M/N:GT(M)9100P12048-X.X
Power : AC 230V/50Hz
Note : FULL LOAD

Time : 2005/09/20 - 21:05
Probe : VULB9163 - VERTICAL
Margin : 6
Std : 30
Trace :



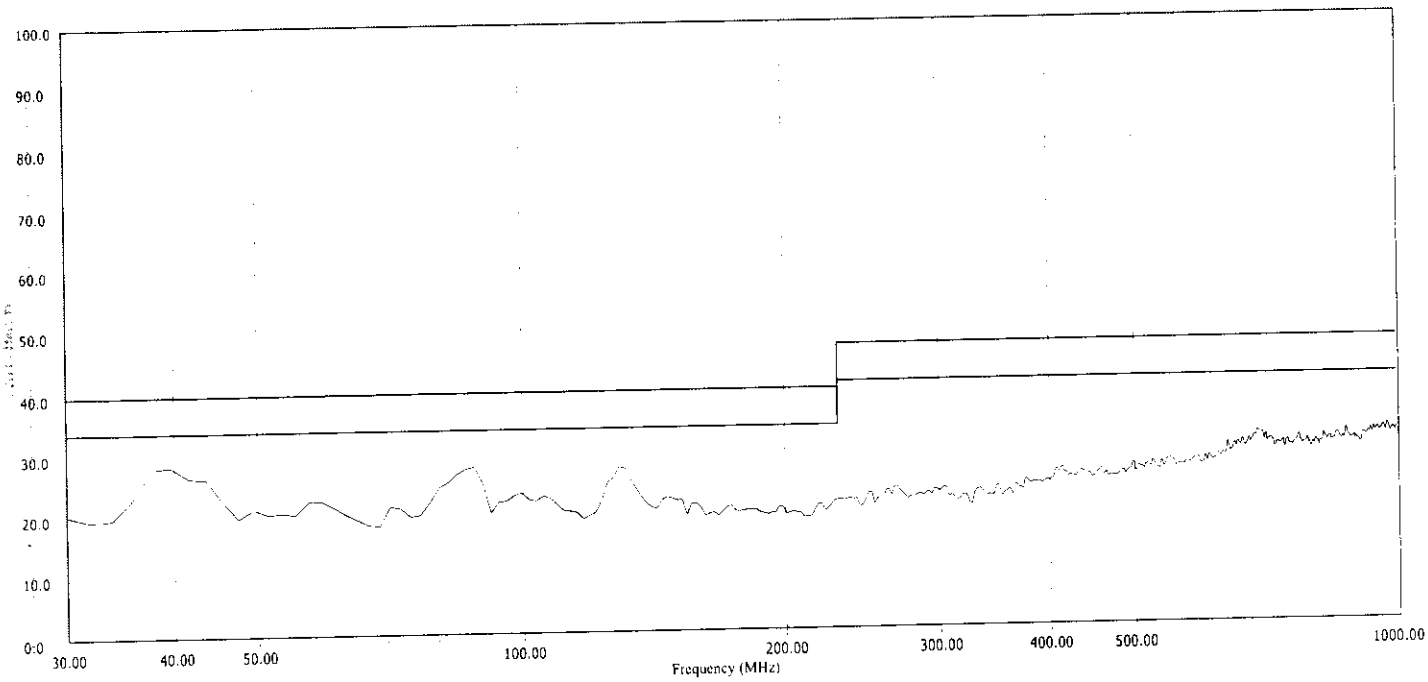
	Flag	Mark	Freq (MHz)	Measure Level (dB)	Reading Level (dBuV)	Over Limit (dBuV/m)	Limit (dBuV/m)	Probe Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		*	39.000	36.044	22.000	-3.956	40.000	13.789	0.256	0.000	0.000	0.000	

Shenzhen EMTEK Co., Ltd.

Bldg 69, Majialong,Taipinyang Industry Zone,Nanshan District,Shenzhen Guangdong,China
Tel: (0755)26954280 Fax:(0755)26954282

File# : Globtek
Site : 3M CHAMBER
Limit : CISPR CLASS_B_QP
EUT : Adaptor M/N:GT(M)9100P12048-X.X
Power : AC 230V/50Hz
Note : FULL LOAD

Time : 2005/09/20 - 21:07
Probe : VULB9163 - HORIZONTAL
Margin : 6
Std : 30
Trace :



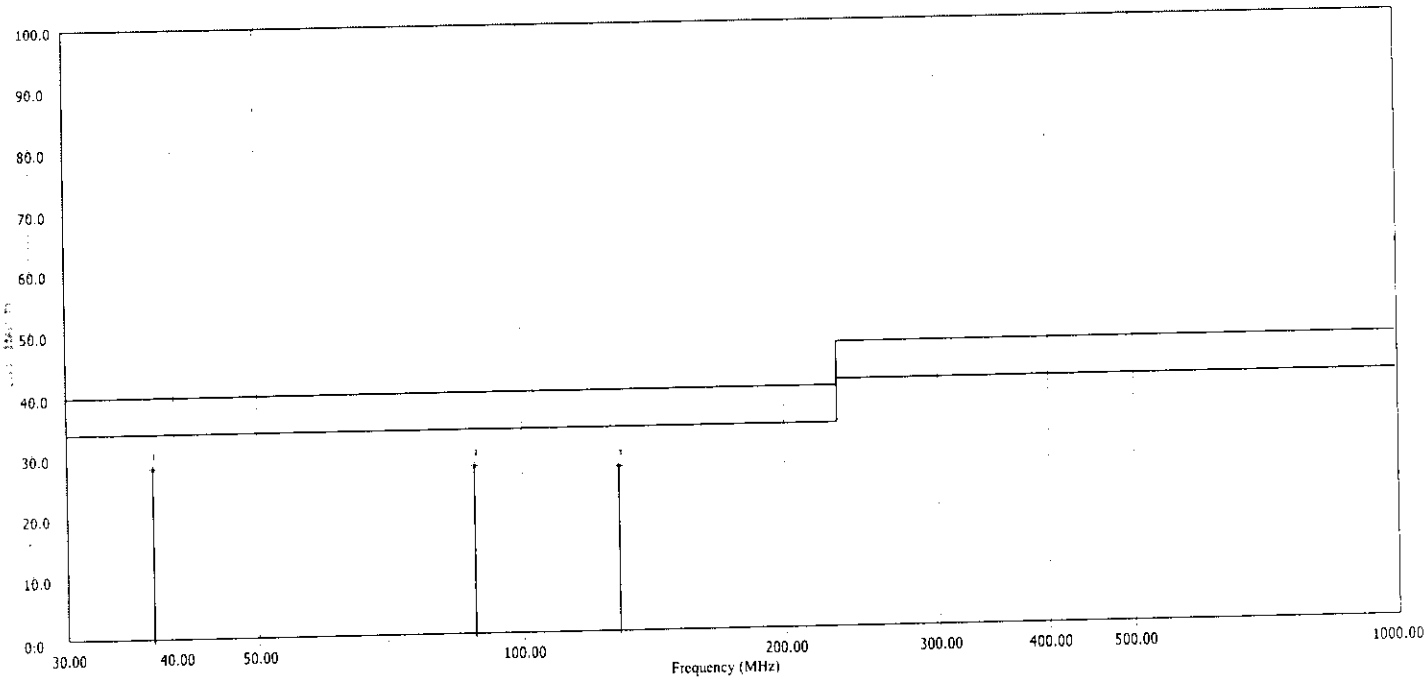
Flag	Mark	Freq (MHz)	Measure Level (dB)	Reading Level (dBuV)	Over Limit (dBuV/m)	Limit (dBuV/m)	Probe Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type

Shenzhen EMTEK Co., Ltd.

Bldg 69, Majialong,Taipinyang Industry Zone,Nanshan District,Shenzhen Guangdong,China
Tel: (0755)26954280 Fax:(0755)26954282

File# : Globtek
Site : 3M CHAMBER
Limit : CISPR CLASS_B_QP
EUT : Adaptor M/N:GT(M)9100P12048-X.X
Power : AC 230V/50Hz
Note : FULL LOAD

Time : 2005/09/20 - 21:07
Probe : VULB9163 - HORIZONTAL
Margin : 6
Std : 30
Trace :



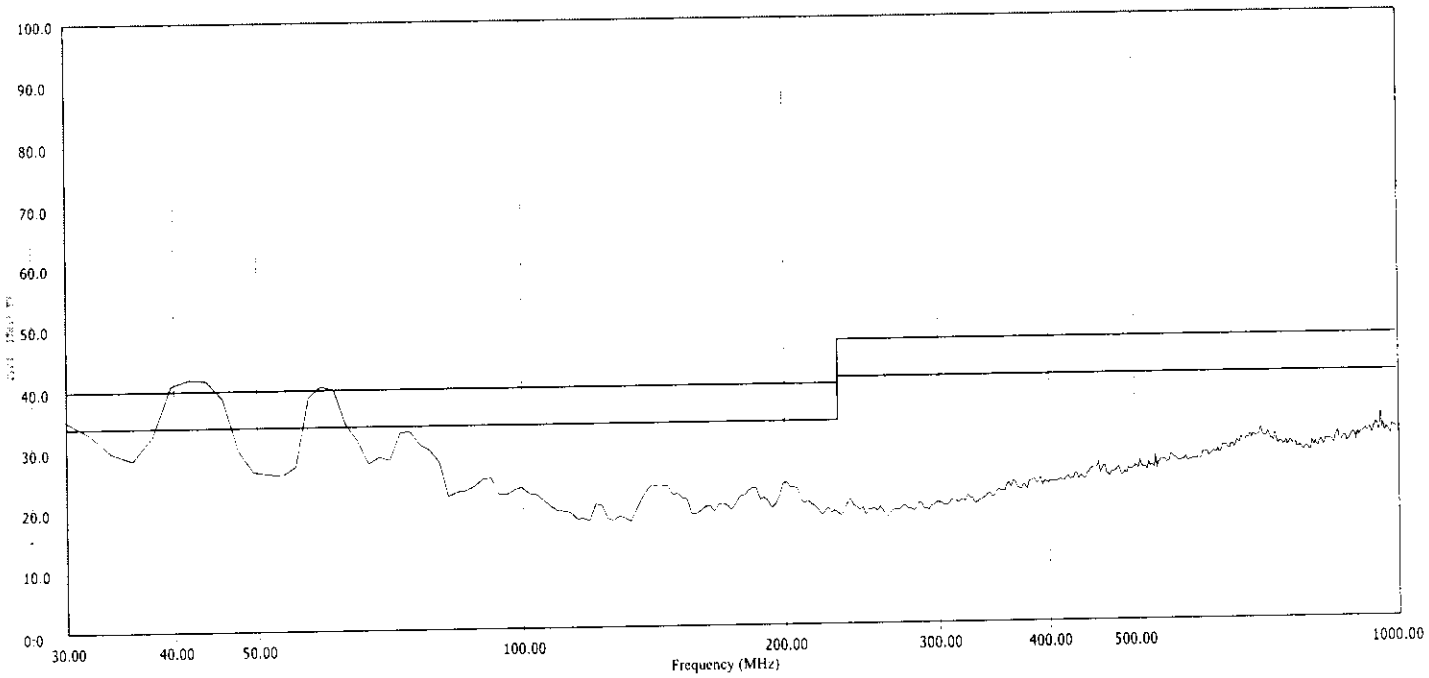
	Flag	Mark	Freq (MHz)	Measure Level (dB)	Reading Level (dBuV)	Over Limit (dBuV/m)	Limit (dBuV/m)	Probe Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		*	37.760	28.270	14.570	-11.730	40.000	13.500	0.200	0.000	0.000	0.000	
2			88.200	27.890	16.190	-12.110	40.000	11.300	0.400	0.000	0.000	0.000	
3			128.940	27.470	17.410	-12.530	40.000	9.460	0.600	0.000	0.000	0.000	

Shenzhen EMTEK Co., Ltd.

Bldg 69, Majialong,Taipinyang Industry Zone,Nanshan District,Shenzhen Guangdong,China
Tel: (0755)26954280 Fax:(0755)26954282

File# : Globtek
Site : 3M CHAMBER
Limit : CISPR CLASS_B_QP
EUT : AdaptorM/N:GT(M)910012-X.X
Power : AC 230V/50Hz
Note : FULL LOAD

Time : 2005/09/20 - 20:04
Probe : VULB9163 - VERTICAL
Margin : 6
Std : 30
Trace :



Flag	Mark	Freq (MHz)	Measure Level (dB)	Reading Level (dBuV)	Over Limit (dBuV/m)	Limit (dBuV/m)	Probe Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type

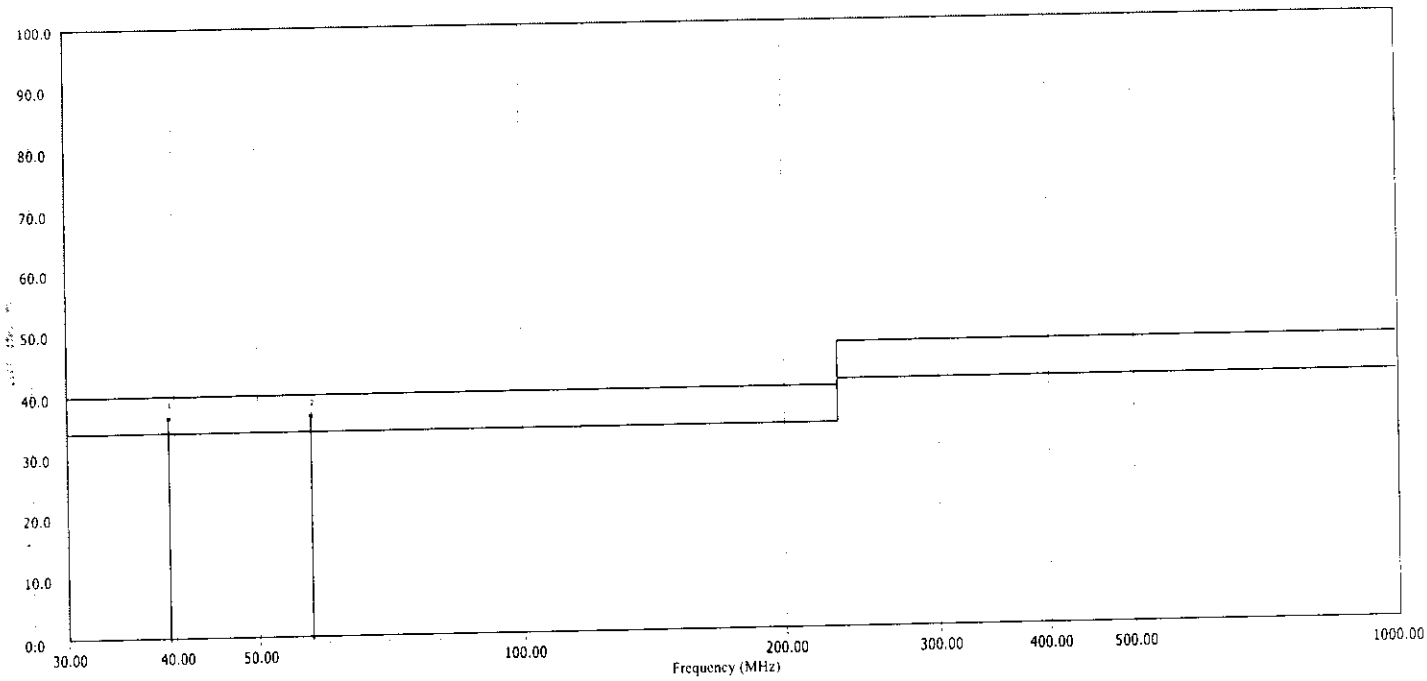
EMTEK

Shenzhen EMTEK Co., Ltd.

Bldg 69, Majialong,Taipinyang Industry Zone,Nanshan District,Shenzhen Guangdong,China
Tel: (0755)26954280 Fax:(0755)26954282

File# : Globtek
Site : 3M CHAMBER
Limit : CISPR CLASS_B_QP
EUT : AdaptorM/N:GT(M)910012-X.X
Power : AC 230V/50Hz
Note : FULL LOAD

Time : 2005/09/20 - 20:07
Probe : VULB9163 - VERTICAL
Margin : 6
Std : 30
Trace :



	Flag	Mark	Freq (MHz)	Measure Level (dB)	Reading Level (dBuV)	Over Limit (dBuV/m)	Limit (dBuV/m)	Probe Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1	!		39.350	36.472	22.500	-3.528	40.000	13.644	0.328	0.000	0.000	0.000	
2	!	*	57.450	36.572	23.400	-3.428	40.000	12.832	0.340	0.000	0.000	0.000	

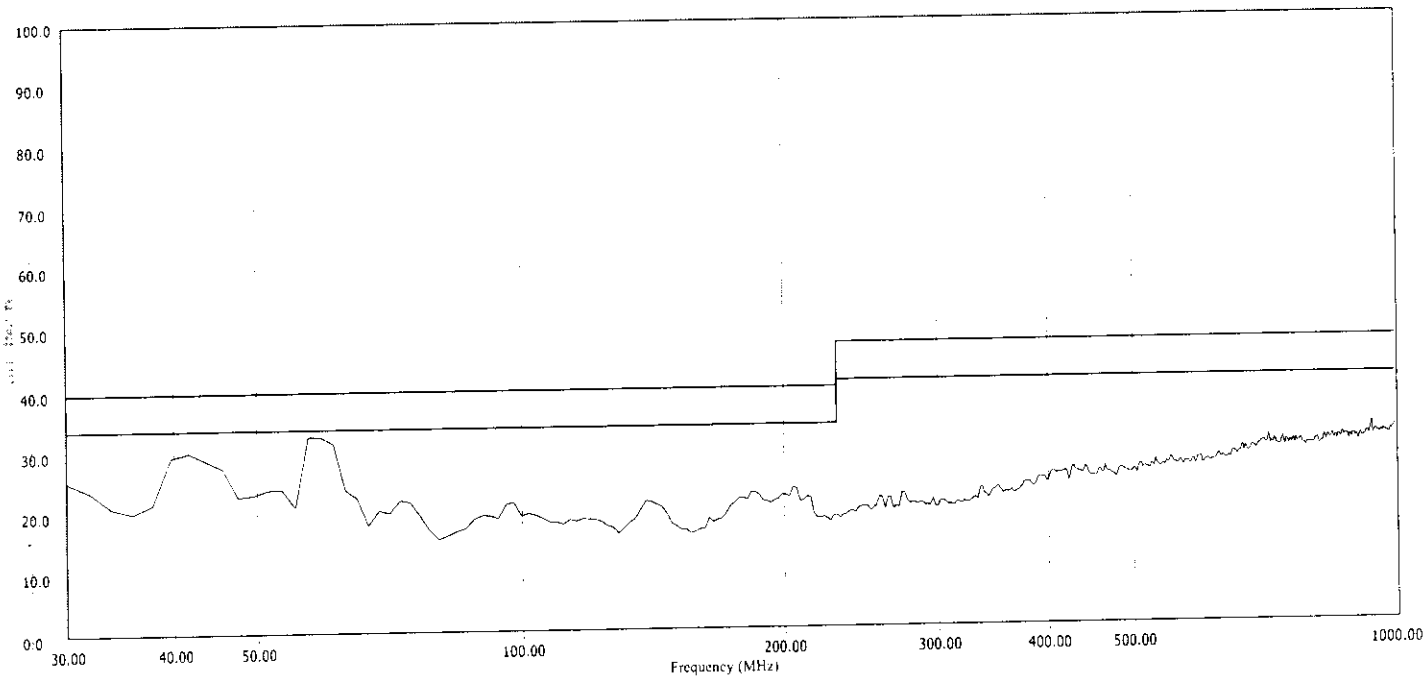
EMTEK

Shenzhen EMTEK Co., Ltd.

Bldg 69, Majialong,Taipinyang Industry Zone,Nanshan District,Shenzhen Guangdong,China
Tel: (0755)26954280 Fax:(0755)26954282

File# : Globtek
Site : 3M CHAMBER
Limit : CISPR CLASS_B_QP
EUT : AdaptorM/N:GT(M)910012-X.X
Power : AC 230V/50Hz
Note : FULL LOAD

Time : 2005/09/20 - 20:08
Probe : VULB9163 - HORIZONTAL
Margin : 6
Std : 30
Trace :



Flag	Mark	Freq (MHz)	Measure Level (dB)	Reading Level (dBuV)	Over Limit (dBuV/m)	Limit (dBuV/m)	Probe Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type

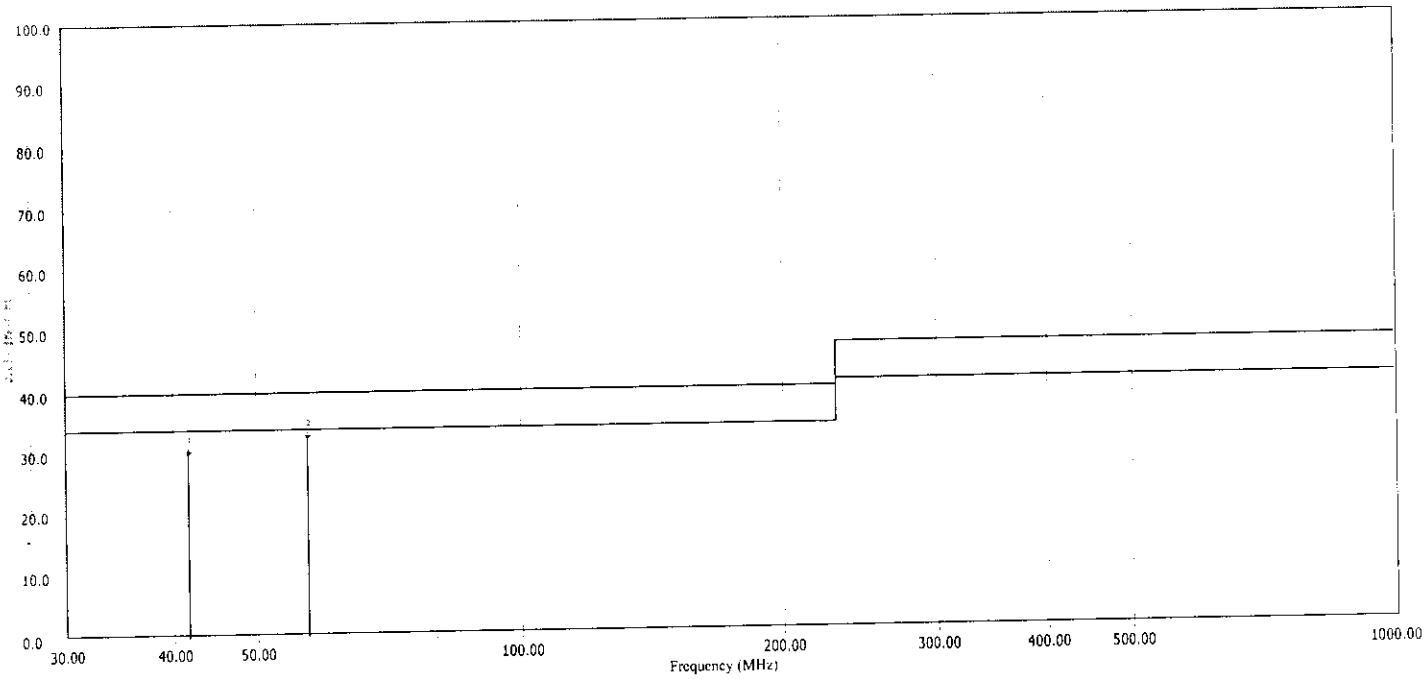
EMTEK

Shenzhen EMTEK Co., Ltd.

Bldg 69, Majialong,Taipinyang Industry Zone,Nanshan District,Shenzhen Guangdong,China
Tel: (0755)26954280 Fax:(0755)26954282

File# : Globtek
Site : 3M CHAMBER
Limit : CISPR CLASS_B_QP
EUT : AdaptorM/N:GT(M)910012-X.X
Power : AC 230V/50Hz
Note : FULL LOAD

Time : 2005/09/20 - 20:08
Probe : VULB9163 - HORIZONTAL
Margin : 6
Std : 30
Trace :



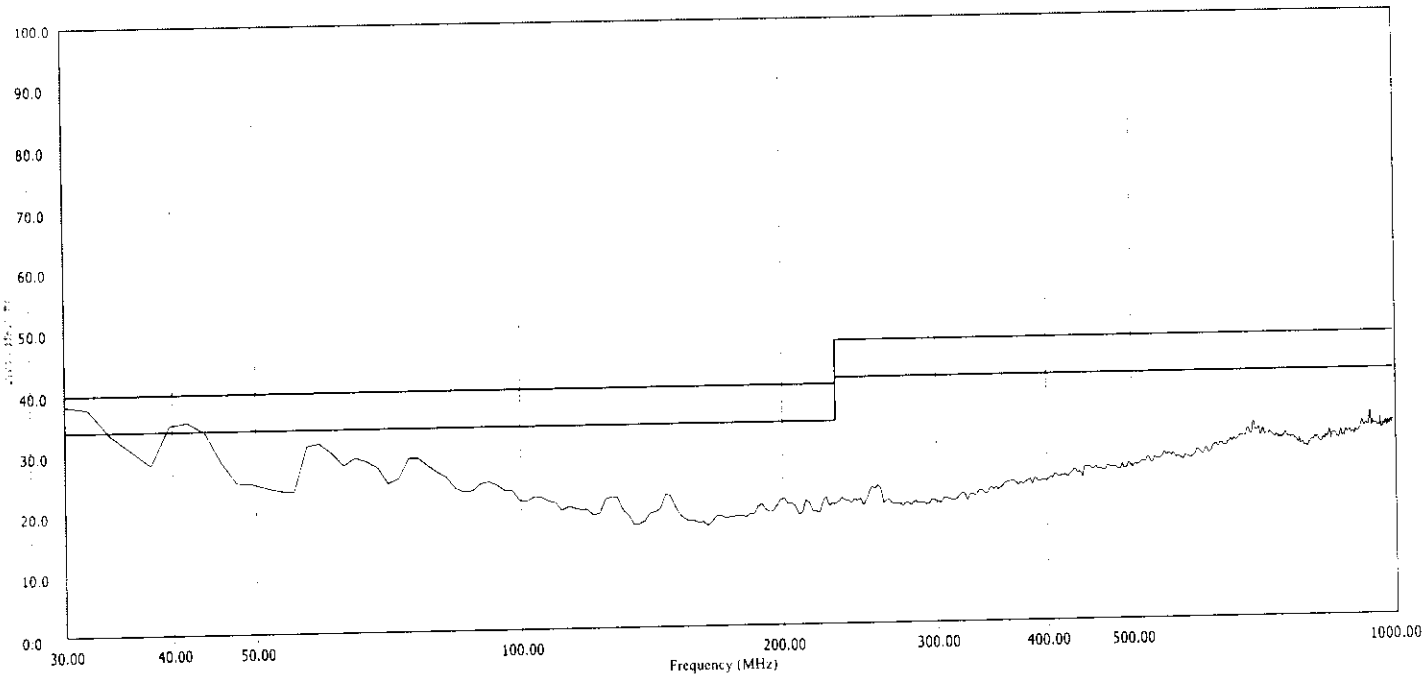
	Flag	Mark	Freq (MHz)	Measure Level (dB)	Reading Level (dBuV)	Over Limit (dBuV/m)	Limit (dBuV/m)	Probe Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1			41.640	30.430	15.670	-9.570	40.000	14.360	0.400	0.000	0.000	0.000	
2		*	57.160	32.830	19.580	-7.170	40.000	12.850	0.400	0.000	0.000	0.000	

Shenzhen EMTEK Co., Ltd.

Bldg 69, Majialong,Taipinyang Industry Zone,Nanshan District,Shenzhen Guangdong,China
Tel: (0755)26954280 Fax:(0755)26954282

File# : Globtek
Site : 3M CHAMBER
Limit : CISPR CLASS_B_QP
EUT : Adaptor M/N:GT(M)9100P12024-X.X
Power : AC 230V/50Hz
Note : FULL LOAD

Time : 2005/09/22 - 19:24
Probe : VULB9163 - VERTICAL
Margin : 6
Std : 30
Trace :



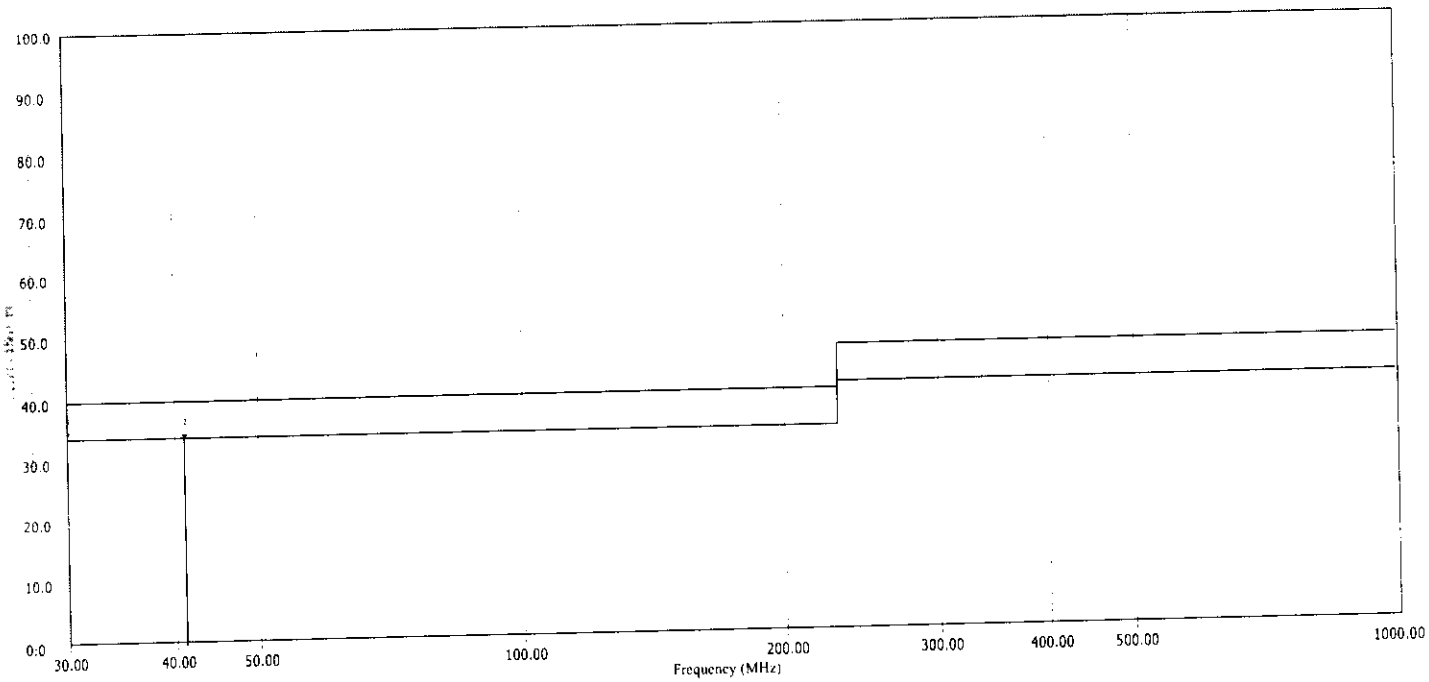
Flag	Mark	Freq (MHz)	Measure Level (dB)	Reading Level (dBuV)	Over Limit (dBuV/m)	Limit (dBuV/m)	Probe Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type

Shenzhen EMTEK Co., Ltd.

Bldg 69, Majialong,Taipinyang Industry Zone,Nanshan District,Shenzhen Guangdong,China
Tel: (0755)26954280 Fax:(0755)26954282

File# : Globtek
Site : 3M CHAMBER
Limit : CISPR CLASS_B_QP
EUT : Adaptor M/N:GT(M)9100P12024-X.X
Power : AC 230V/50Hz
Note : FULL LOAD

Time : 2005/09/22 - 19:25
Probe : VULB9163 - VERTICAL
Margin : 6
Std : 30
Trace :



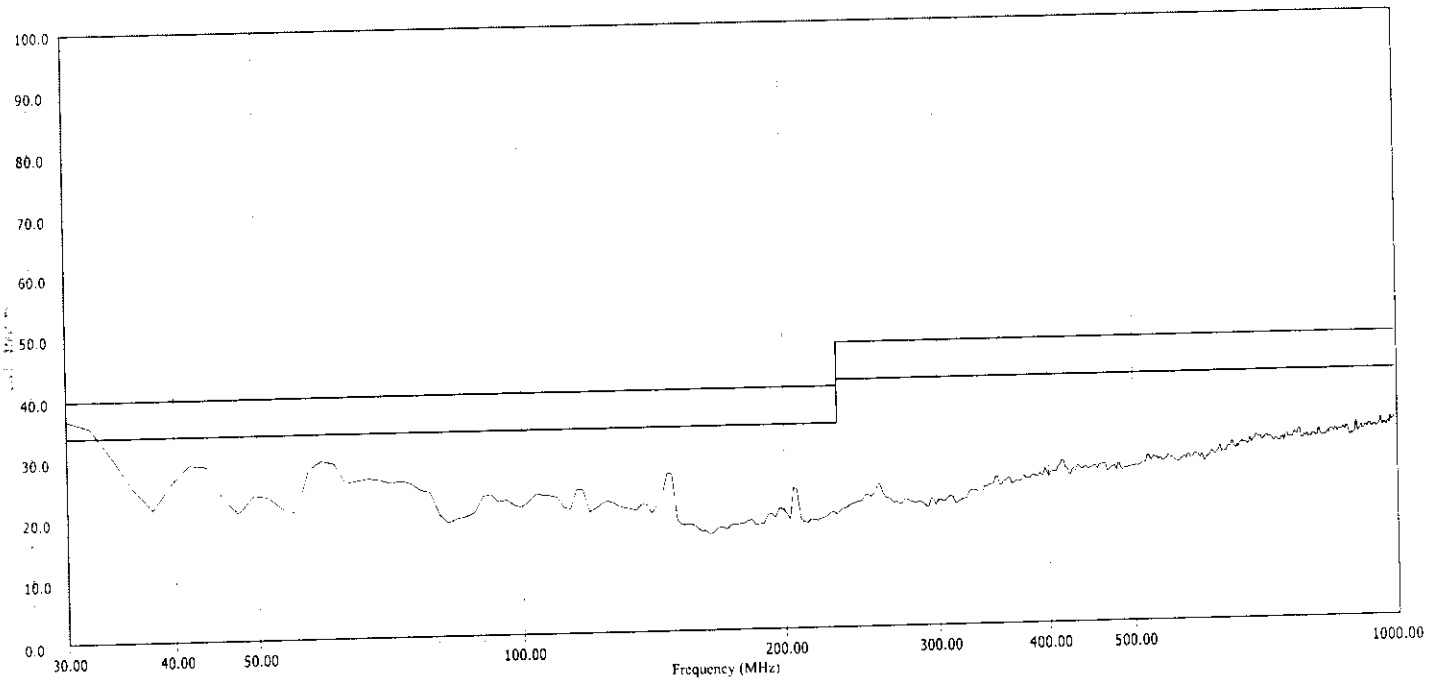
	Flag	Mark	Freq (MHz)	Measure Level (dB)	Reading Level (dBuV)	Over Limit (dBuV/m)	Limit (dBuV/m)	Probe Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		*	30.000	34.930	21.000	-5.070	40.000	13.530	0.400	0.000	0.000	0.000	
2			41.000	34.479	20.000	-5.521	40.000	14.079	0.400	0.000	0.000	0.000	

Shenzhen EMTEK Co., Ltd.

Bldg 69, Majialong,Taipinyang Industry Zone,Nanshan District,Shenzhen Guangdong,China
Tel: (0755)26954280 Fax:(0755)26954282

File# : Globtek
Site : 3M CHAMBER
Limit : CISPR CLASS_B_QP
EUT : Adaptor M/N:GT(M)9100P12024-X.X
Power : AC 230V/50Hz
Note : FULL LOAD

Time : 2005/09/22 - 19:28
Probe : VULB9163 - HORIZONTAL
Margin : 6
Std : 30
Trace :



Flag	Mark	Freq (MHz)	Measure Level (dB)	Reading Level (dBuV)	Over Limit (dBuV/m)	Limit (dBuV/m)	Probe Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type

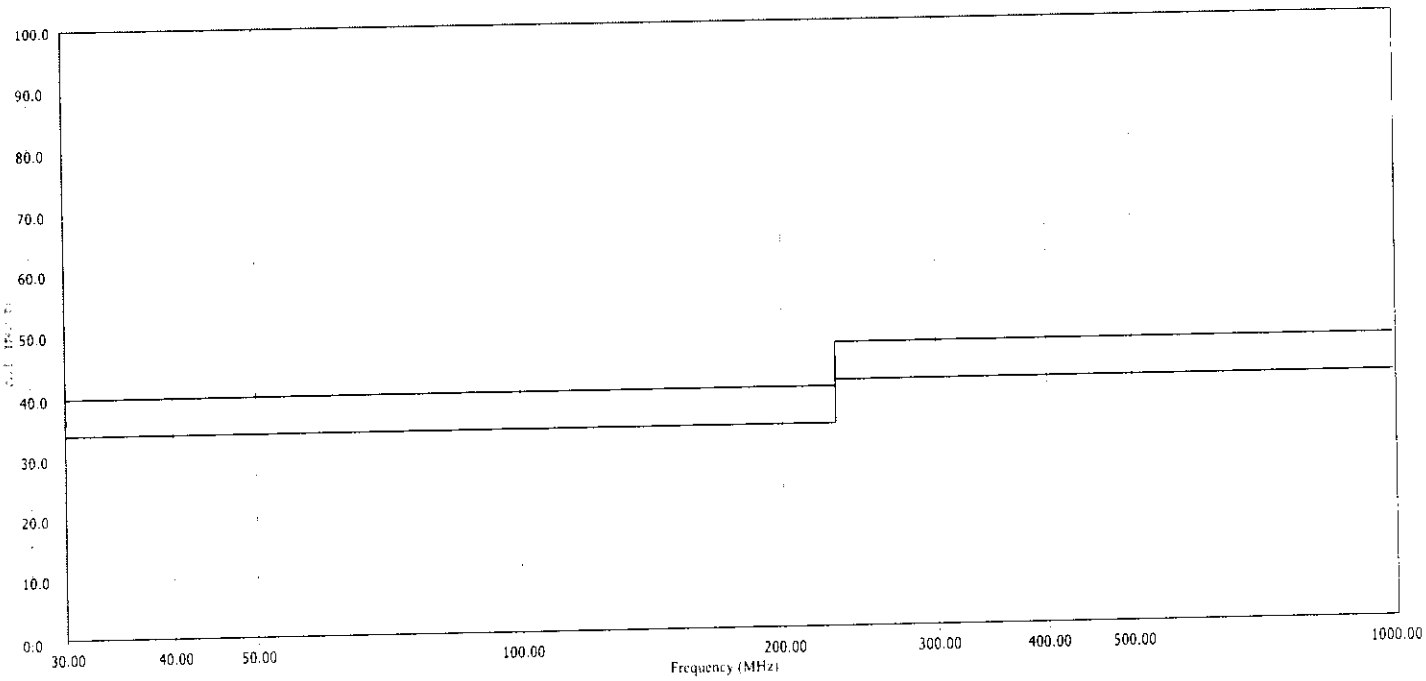
EMTEK

Shenzhen EMTEK Co., Ltd.

Bldg 69, Majialong,Taipinyang Industry Zone,Nanshan District,Shenzhen Guangdong,China
Tel: (0755)26954280 Fax:(0755)26954282

File# : Globtek
Site : 3M CHAMBER
Limit : CISPR CLASS_B_QP
EUT : Adaptor M/N:GT(M)9100P12024-X.X
Power : AC 230V/50Hz
Note : FULL LOAD

Time : 2005/09/22 - 19:29
Probe : VULB9163 - HORIZONTAL
Margin : 6
Std : 30
Trace :



	Flag	Mark	Freq (MHz)	Measure Level (dB)	Reading Level (dBuV)	Over Limit (dBuV/m)	Limit (dBuV/m)	Probe Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		*	30.000	33.930	20.000	-6.070	40.000	13.530	0.400	0.000	0.000	0.000	

APPENDIX III
(PHOTOS OF EUT)

FIGURE 1
GENERAL APPEARANCE OF EUT

M/N: GT(M)9100P12024-X.X

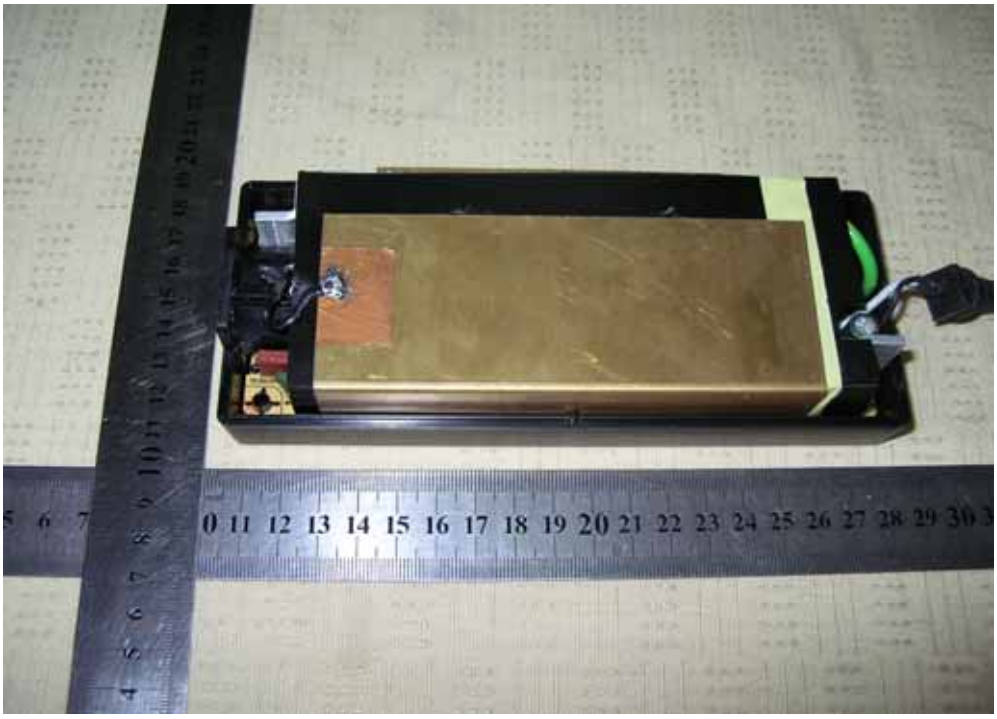
M/N: GT(M)9100P12024-X.X

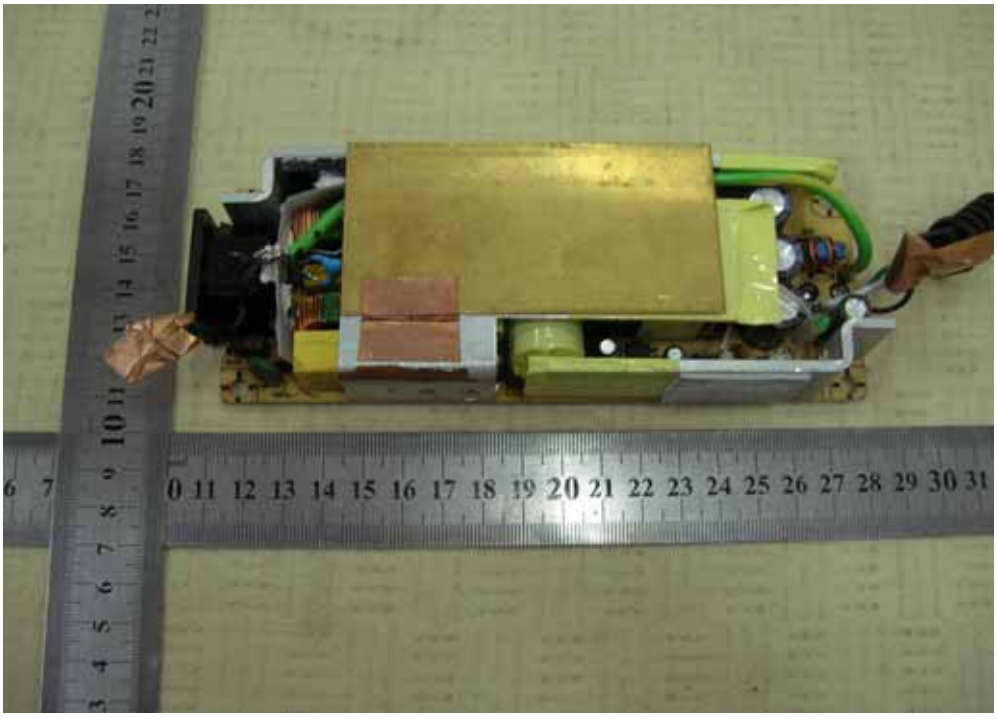
M/N: GT(M)9100P10012-X.X

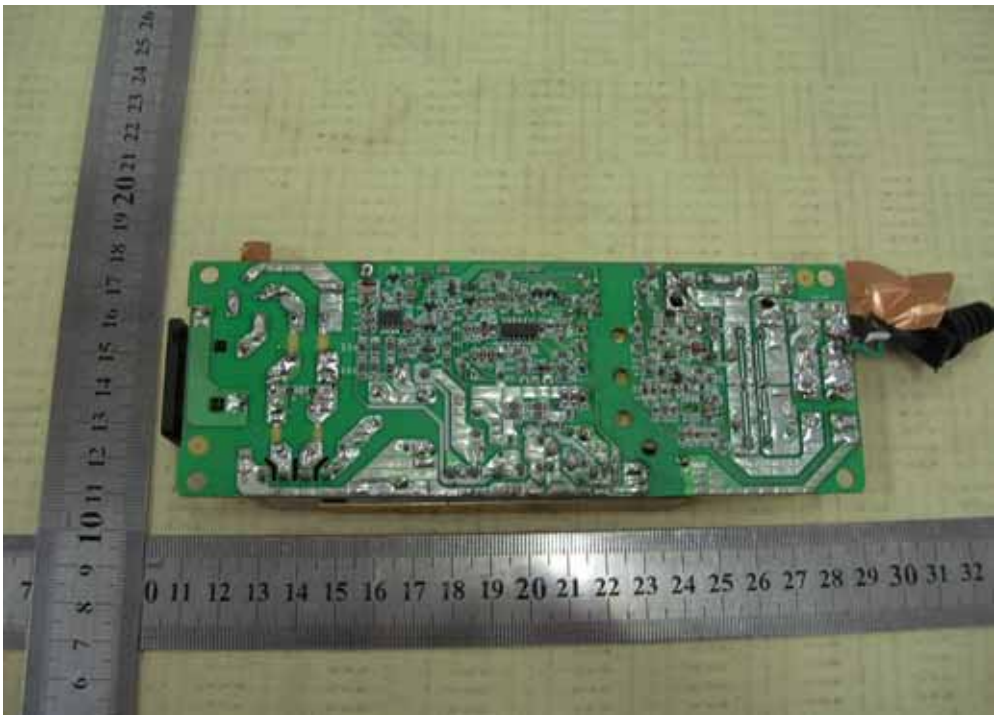
M/N: GT(M)9100P10012-X.X

M/N: GT(M)9100P12048-X.X

M/N: GT(M)9100P12048-X.X






0 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32