Test Report
Application for Certification
On Behalf Of
ADS Technologies, Inc. / Advanced Digital Systems
Channel Surfer TV

Model : CHX-955

FCC ID : LL5-955TVPCI

Prepared For:
ADS Technologies, Inc.
13909 Bettencourt St.
Cerritos, CA. 90703

Report By :Global EMC Standard Tech. Corp.
No.3 Pau-Tou-Tsuo Valley, Chia-Pau
Tsuen, Lin Kou Hsiang, Taipei Country,
Taiwan, R.O.C.
Tel : (02) 2603-5321
Fax : (02) 2603-5325

TABLE OF CONTENTS

1. Test Report Certification

Applicant : ADS Technologies, Inc. / Advanced Digital Systems

Manufacturer : T.N.C. Industrial Co., Ltd.

EUT Description : Channel Surfer TV

(A) FCC ID : N/A

(B) Model No. : CHX-955

(C) Serial No. : ProtoType

(D) Power Supply : 5V/DC 100mA

(E) Test Power Supply : 110V/60Hz

MEASUREMENT PROCEDURE USED :

CFR 47, Part 15 Radio Frequency Device Subpart B Unintentional Radiators Class **B** :1996

CISPR 22 Limits and methods of measurement of radio disturbance characteristics of information technology equipment: 1993

ANSI C63.4 Methods of Measurements of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9kHz to 40GHz. :1992

THE MEASUREMENT SHOWN IN THE ATTACHMENT WERE MADE IN ACCORDANCE WITH THE PROCEDURES INDICATED, AND THE MAXIMUM ENERGY EMITTED BY THE EQUIPMENT WAS FOUND TO BE WITHIN THE FCC LIMITS APPLICABLE.

NVLAP®

Sample Received Date : Mar. 20, 1998

Final Test Date : Mar. 28, 1998

Documented by : Christine Fun

Test Engineer : Miller Lee

MILLER LEE

Approve & Authorized Signer : Terry Chung

TERRY CHUNG

This test data shown below is traceable to NIST.

2. General Information

2.1 Production Description

Description	:	Channel Surfer TV
Model Number	:	CHX-955
Serial Number	:	ProtoType
Applicant	:	ADS Technologies, Inc.
Address	:	13909 Bettencourt St.,
		Cerritos, CA. 90703
Manufacturer	:	T.N.C. Industrial Co., Ltd.
Address	:	3F, No. 8, Lane 235, Bao Chiao Rd.,
		Hsin Tine City, Taiwan, R.O.C.
Data Cable	:	Non-Shielded , Detachable, 10m

Mode 1: S-Vdieo Mode, Resolution: 640*480,
60Hz, 31.5K, Non-Interlaced

Mode 2: AV Mode, Resolution: 640*480,
60Hz, 31.5K, Non-Interlaced

Mode 3: AIR Mode, Resolution: 640*480,
60Hz, 31.5K, Non-Interlaced

Note:

1. The EUT (Channel Surfer TV) was tested on busy data transfer mode to find the manimun emission. The data show in this test report reflects the worst-case data for each operation mode.

2.2 Tested System Details

The FCC IDs for all equipment, plus descriptions of all cables used in the tested system (including inserted cards, which have grants) are:

☒ Host Personal Computer

PC Chassis	: CHENBRO GROUP
Motherboard	: ASUS, TX97-E
CPU	: Intel Pentium 75MHz
Floppy Disk Driver	: Manufacturer: NEC
3.5" #1	Model: FD-1231H
HDD	: Manufacturer: Quantum,
	Model: AT-2550
CD-ROM	: Manufacturer: Matsushita, Model: CR-583-J
	FCC ID: IU09TB054CRR, Serial No.: 7307CKA13550
Disk Ctrl Card	: On board
ChannelSurfer TV(EUT)	: TNC. CHX-955
I/O Card	: On board
SCSI Card	: Tekran, DC300B
VGA Card	: Manufacturer: Matrox
	Model: MGA-MIL/4BN
	FCC ID: ID7059000
Switching Power Supply	: Manufacturer: SEVENTEAM
	Model: ST-230WHF
	Serial No.: 6Q343951
Power Cord	: Non-Shielded, Detachable, 1.5m

☒ Monitor

Model Number	: 4500DC
Serial Number	: 3652100181
FCC ID	: GWGMULTI82
Manufacturer	: OPTIQUEST, INC.
Data Cable	: Shielded, Undetachable, 1.2m
Power Cord	: Shielded, Detachable, 1.5m

☒ Keyboard

Model Number	: 5140
Serial Number	: A73281206
FCC ID	: E5XKBM10510
Manufacturer	: BTC
Data Cable	: Sheiled, Undetachable, 1.2 m

☒ Printer

Model Number	: C2642A(DJ-400)
Serial Number	: MY7951C4RW
FCC ID	: B94C2642X
Manufacturer	: HP
Adaptor & Power Cord	: AC 110V, 60Hz To DC 30V
	: Non-Shielded, Detachable, 1.9m
Data Cable	: Shielded, Detachable, 1.8m

☒ Modem

Model Number	: 1414
Serial Number	: 960018043
FCC ID	: IFAXDM1414
Manufacturer	: ACEEX
Adaptor & Power Cord	: Non-Shielded, Detachable, 1.5m
Data Cable	: Shielded, Detachable, 1.2m

☒ Mouse

Model Number	: MUS3M
Serial Number	:
FCC ID	: JKGMUS2S01
Manufacturer	: Tremon Enterpnses Co., Ltd.
Data Cable	: Shielded, Undetachable, 1.5m

☒ Speaker

Model Number	: DS-203
Serial Number	: N/A
FCC ID	: N/A
Manufacturer	: Crocodile
Power Cord	: N/A
Data Cable	: Shielded, Undetachable, 1m

☒ Earphone

Model Number	: PH-12B
Serial Number	: N/A
Manufacturer	: PRO2 International Corp.
Power Cord	: N/A
Data Cable	: Non-Shielded, Undetachable, 1.2 m

☒ Microphone

Model Number	: N/A
Serial Number	: N/A
FCC ID	: N/A
Manufacturer	: AIWA
Data Cable	: Non-Shielded, Undetachable, 1m

☒ Tape Driver Line In

Model Number	: 411
Serial Number	: 003G0285
FCC ID	: GWV411-T
Manufacturer	: SUN Microsystem
Power Cord	: Shielded, Detachable, 1.5m
Data Cable	: Shielded, Detachable, 1m

☒ Video Cassette Recorder

Model Number	: NV-H30L
Serial Number	: N/A
FCC ID	: N/A
Manufacturer	: Panasonic
Power Cord	: Shielded, Detachable, 1.5m
Data Cable	: Shielded, Detachable, 1m

☒ CCD Camera

Model Number	: UW10-1051NVD
Serial Number	: N/A
FCC ID	: N/A
Manufacturer	: T.N.C. Industrial Co., LTD.
Data Cable	: Shielded, Detachable, 1m

2.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4-1992.

Radiated testing was performed at an antenna to EUT distance of 3 meters.

2.4 Test Facility

Site Description	:	Aug. 10, 1995 File on Federal Communication Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046 Reference 31040/SIT1300F2
Name of firm	:	Global EMC Standard Tech. Corp.
Site location	:	No. 3 Pau-Tou Valley, Chia-Pau Tsuen, Lin Kou Tsiang, Taipei Country, Taiwan, R.O.C.

3. Conducted Power Line Test

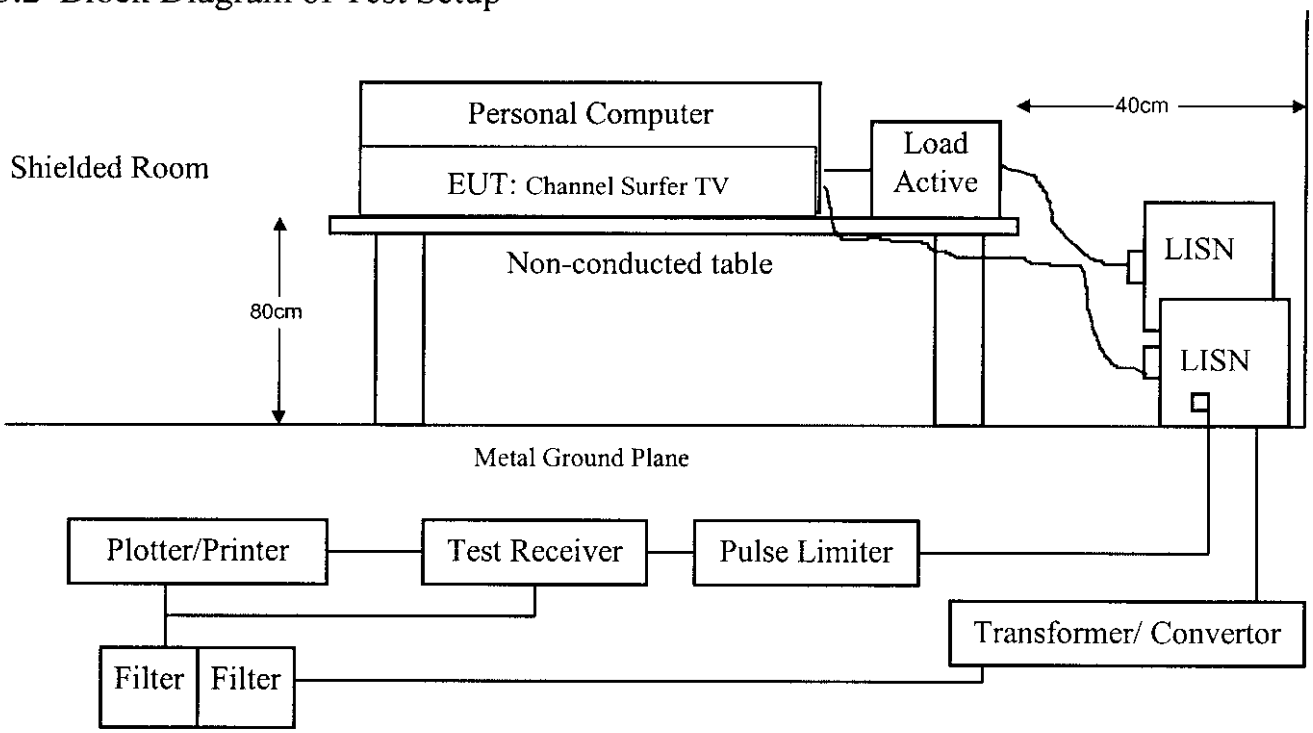
3.1 Test Equipments

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

Instrument	Manufacturer	Type /Serial No.	Last Calibration	Location	C.E.
Test Receiver	Rohde & Schwarz	ESHS 30 / 8281091010	Sep.1997	Shield Room #1	V
L.I.S.N.	Kyoritsu	KNW-407	Jul.1997	Shield Room #1	
L.I.S.N.	Solar	8012-50-R24 / 90038	N/A(Peripheral use)	Shield Room #1	V
L.I.S.N.	EMCO	3825/2 / 91111-1902	Jul.1997	Shield Room #1	
L.I.S.N.	Rohde & Schwarz	ESH3-Z5 / 840567/002	Jan.1997	Shield Room #1	V
L.I.S.N.	Schwarzbeck	NNLK 8121	Apr. 1997	Shield Room #1	
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	N/A	Shield Room #1	V

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

3.2 Block Diagram of Test Setup



3.3 Conducted Powerline Emission Limit

Frequency	Maximum RF Line Voltage			
	Class A		Class B	
MHz	uV	dBuV	uV	dBuV
0.45 - 1.705	1000	60.0	250	48.0
1.705 - 30	3000	69.5	250	48.0

Remarks : 1. RF Line Voltage (dBuV) = 20 log RF Line Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3.4 EUT Configuration on Measurement

The equipments which is listed 3.2 are installed on Conducted Power Line Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.5 EUT Exercise Software

The EUT exercise program used during conducted testing was designed to exercise the EUT in a manner similar to a typical use. The exercise sequence is listed as below:

3.5.1 Setup the EUT and simulators as shown on 3.2

3.5.2 Turn on the power of all equipments.

3.5.3 Boot the PC from Hard Disk and setup the vedio to appropriated resolution .

3.5.4 Choose the video source from CCD camera, VCR or TV antenna

3.6 Conducted Emission Data

The measurement range of conducted emission which is from **0.45 MHz to 30 MHz** was investigated. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

CONDUCTED EMISSION DATA

Date of Test	:	Mar. 28, 1998	Temperature	:	24.7 ℃
EUT	:	Channel Surfer TV	Humidity	:	70 %
Test Mode	:	Mode 1	Display Pattern	:	N/A

FREQUENCY	READING LEVEL				LIMITS
	LINE 1		LINE 2		
MHz	dBuV	uV	dBuV	uV	uV
0.45017	31.1	*	33.0	*	250
0.56524	31.8	*	33.3	*	250
**0.80374	33.7	*	28.1	*	250
1.52304	30.4	*	32.0	*	250
13.38685	14.7	*	13.5	*	250
22.00388	28.0	*	27.8	*	250

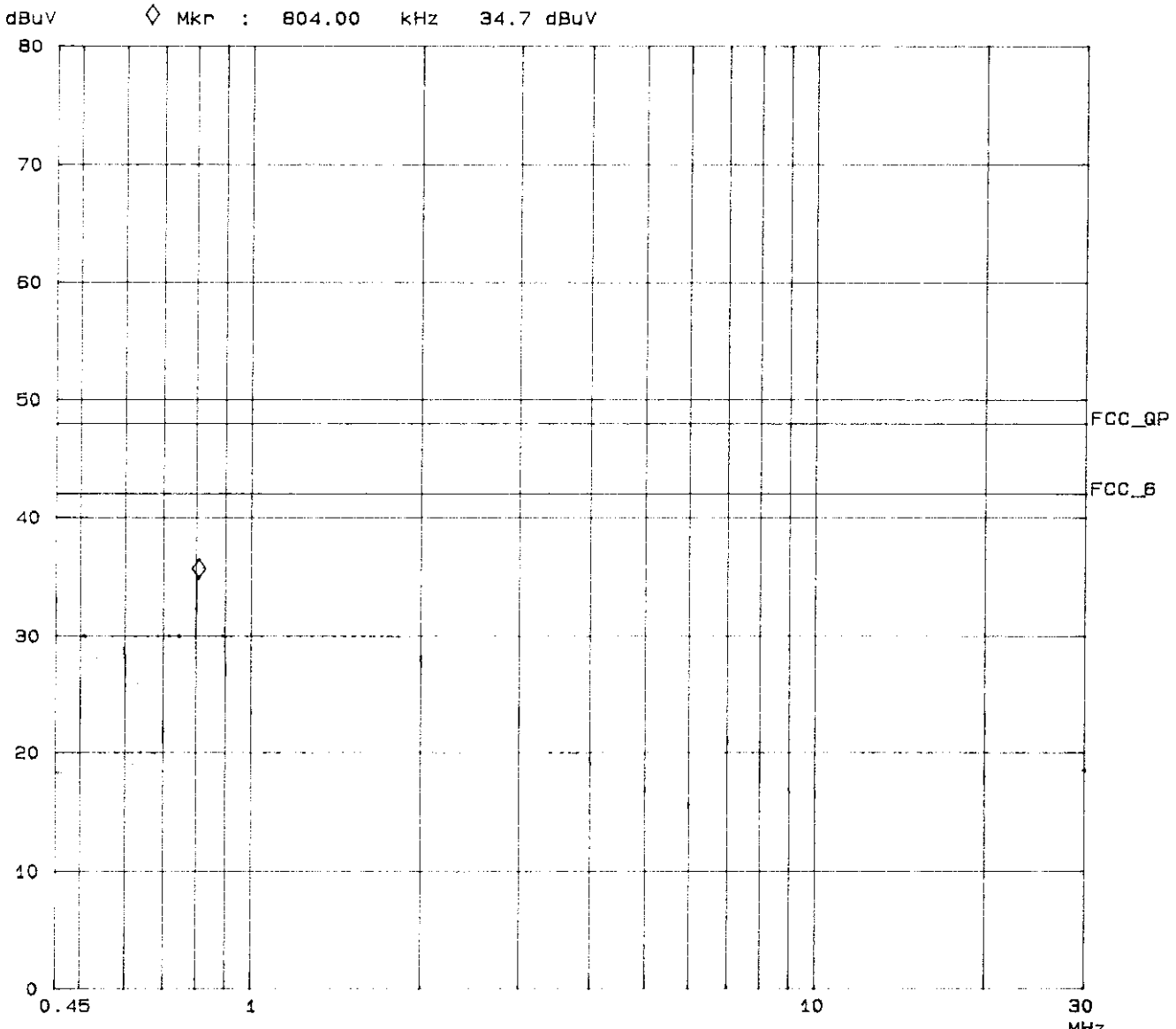
Remarks : 1. All readings are Quasi-peak and average values.
2. " * " means that the quasi-peak reading level is lower then the average limits, it is not necessary to measure the average level.
3. " ** " means that this data is the worse case emission level.

Attached 2 individual pages of peak scan curve data sheets.

ROHDE & SCHWARZ ESHS 30

GesTek, PowerLine Conducted Emission

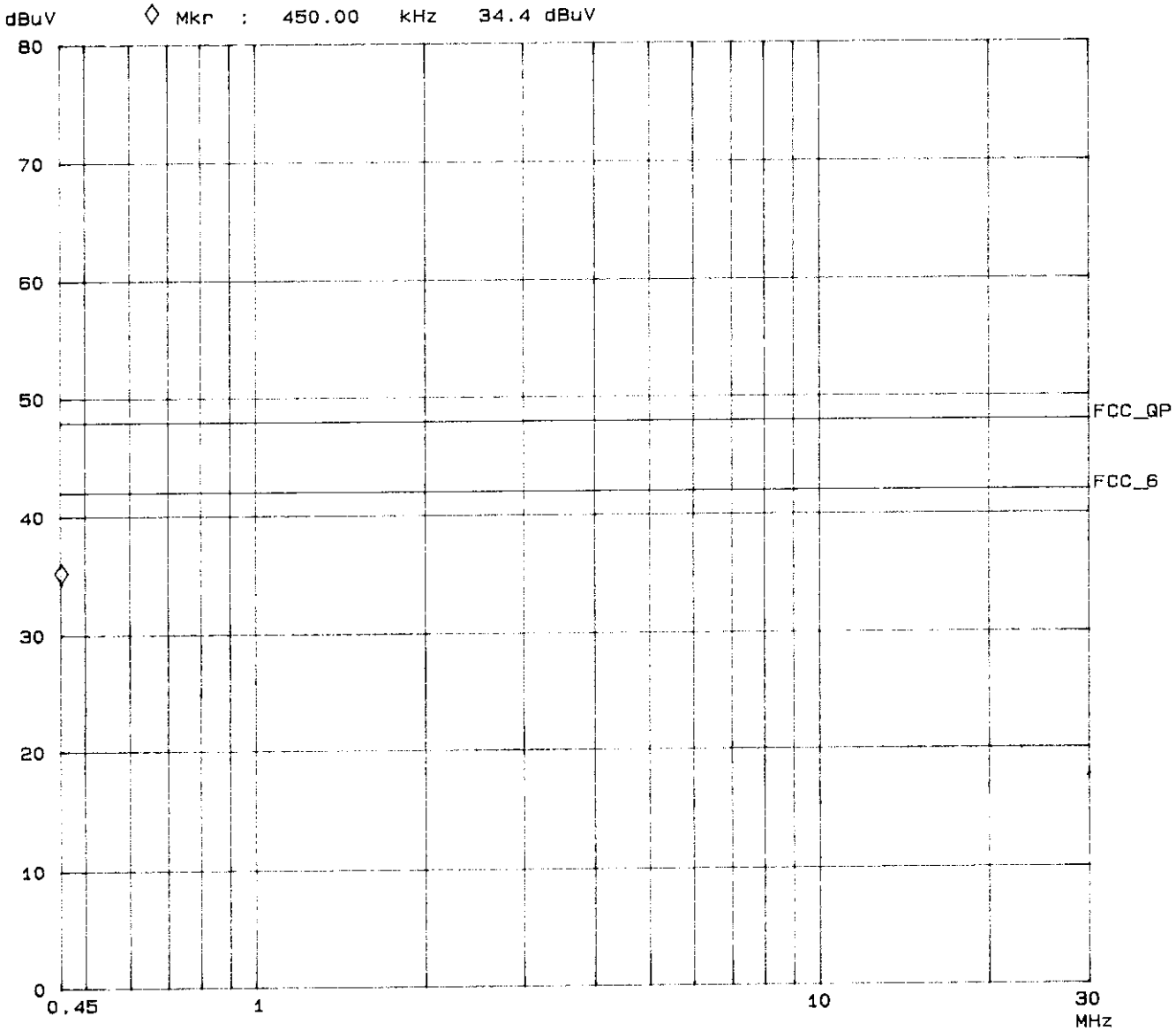
EUT:	CHANNEL SURFER TV
Manuf:	ADS
Op Cond:	FULL SYSTEM
Operator:	MILLER
Test Spec:	FCC CLASS B
Comment:	Line 1
	MODE: 1



ROHDE & SCHWARZ ESHS 30

GesTek, PowerLine Conducted Emission

EUT:	CHANNEL SURFER TV
Manuf:	ADS
Op Cond:	FULL SYSTEM
Operator:	MILLER
Test Spec:	FCC CLASS B
Comment:	Line 2
	MODE: 1



CONDUCTED EMISSION DATA

Date of Test	:	Mar. 28, 1998	Temperature	:	25.3 ℃
EUT	:	Channel Surfer TV	Humidity	:	70 %
Test Mode	:	Mode 2	Display Pattern	:	N/A

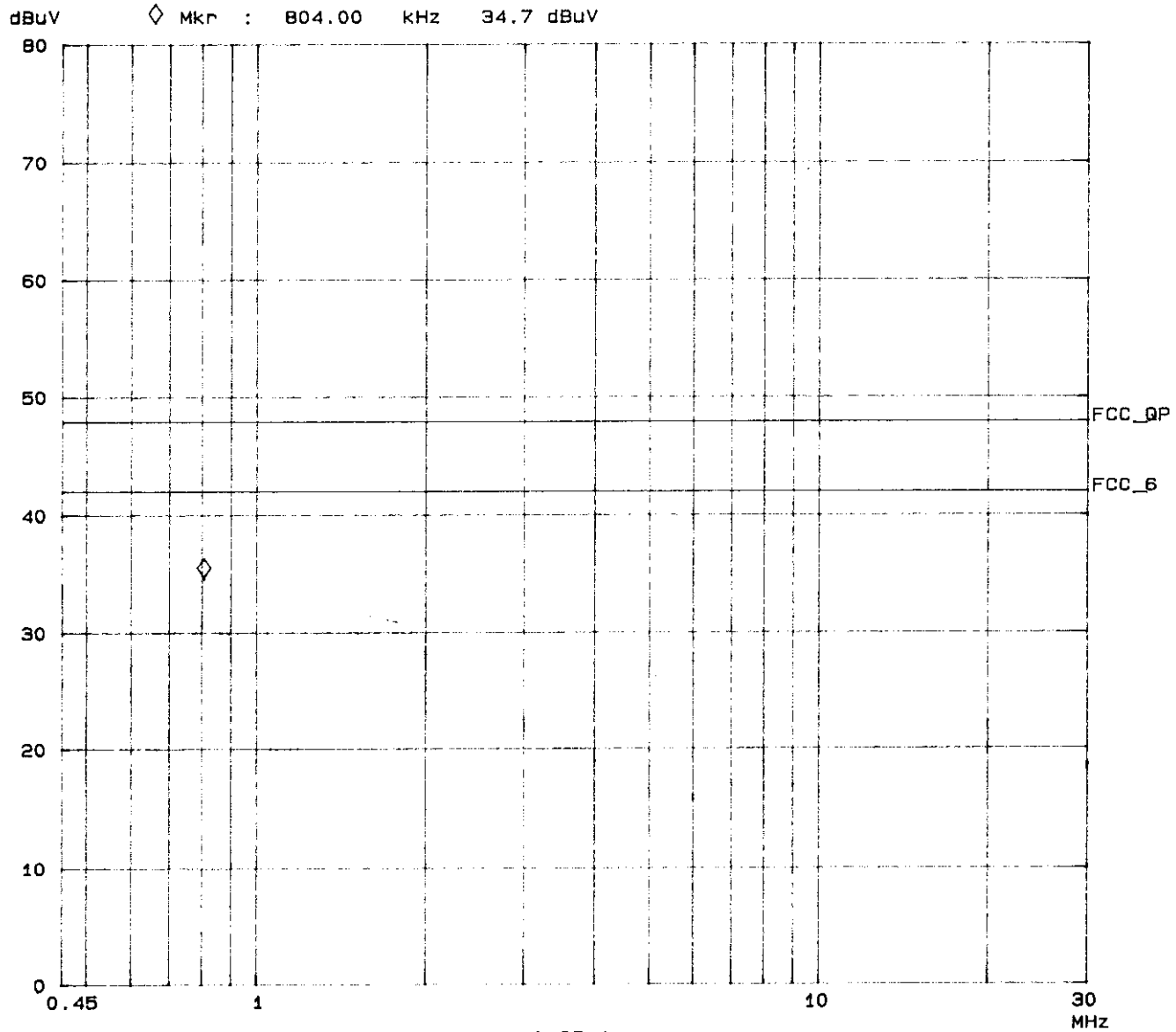
FREQUENCY	READING LEVEL				LIMITS
	LINE 1		LINE 2		
MHz	dBuV	uV	dBuV	uV	uV
**0.45023	31.7	*	34.7	*	250
0.68629	31.2	*	32.0	*	250
0.92359	33.3	*	28.5	*	250
1.52149	30.6	*	32.2	*	250
14.11858	21.8	*	22.1	*	250
24.48139	20.2	*	19.6	*	250

Remarks : 1. All readings are Quasi-peak and average values.
2. " * " means that the quasi-peak reading level is lower then the average limits, it is not necessary to measure the average level.
3. " ** " means that this data is the worse case emission level.

Attached 2 individual pages of peak scan curve data sheets.

ROHDE & SCHWARZ ESHS 30
GesTek, PowerLine Conducted Emission

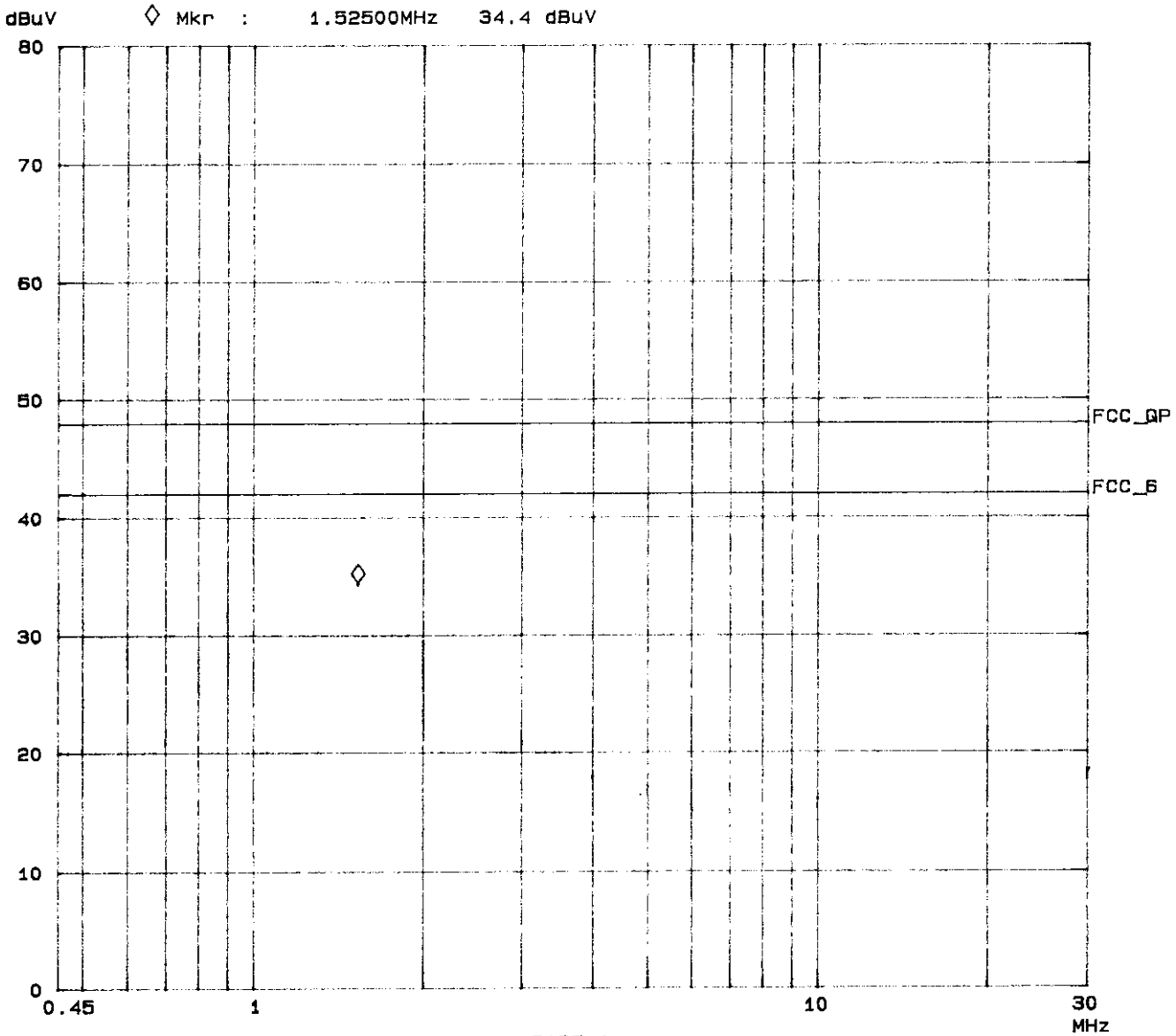
EUT:	CHANNEL SURFER TV
Manuf:	ADS
Op Cond:	FULL SYSTEM
Operator:	MILLER
Test Spec:	FCC CLASS B
Comment:	Line 1
	MODE: 2



ROHDE & SCHWARZ ESHS 30

GesTek, PowerLine Conducted Emission

EUT:	CHANNEL SURFER TV
Manuf:	ADS
Op Cond:	FULL SYSTEM
Operator:	MILLER
Test Spec:	FCC CLASS B
Comment:	Line 2
	MODE: 2



CONDUCTED EMISSION DATA

Date of Test	:	Mar. 28, 1998	Temperature	:	25.7 ℃
EUT	:	Channel Surfer TV	Humidity	:	70 %
Test Mode	:	Mode 3	Display Pattern	:	N/A

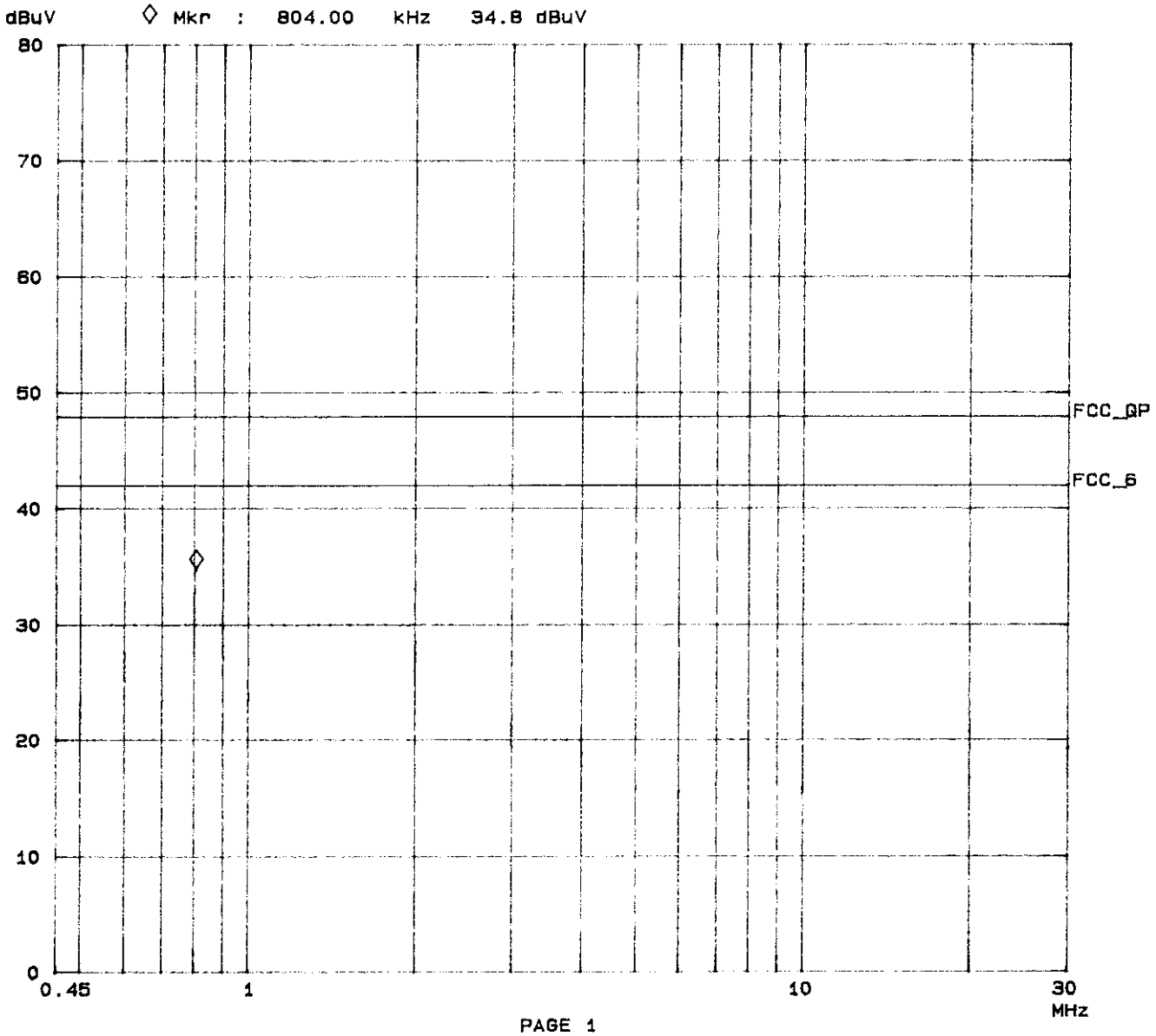
FREQUENCY	READING LEVEL				LIMITS
	LINE 1		LINE 2		
MHz	dBuV	uV	dBuV	uV	uV
0.45027	30.7	*	33.6	*	250
0.80396	32.3	*	27.7	*	250
**1.58503	30.9	*	34.7	*	250
14.32065	22.8	*	21.6	*	250
15.99985	28.3	*	27.4	*	250
24.1970	22.5	*	21.7	*	250

Remarks : 1. All readings are Quasi-peak and average values.
2. " * " means that the quasi-peak reading level is lower then the average limits, it is not necessary to measure the average level.
3. " ** " means that this data is the worse case emission level.

Attached 2 individual pages of peak scan curve data sheets.

ROHDE & SCHWARZ ESHS 30
GesTek, PowerLine Conducted Emission

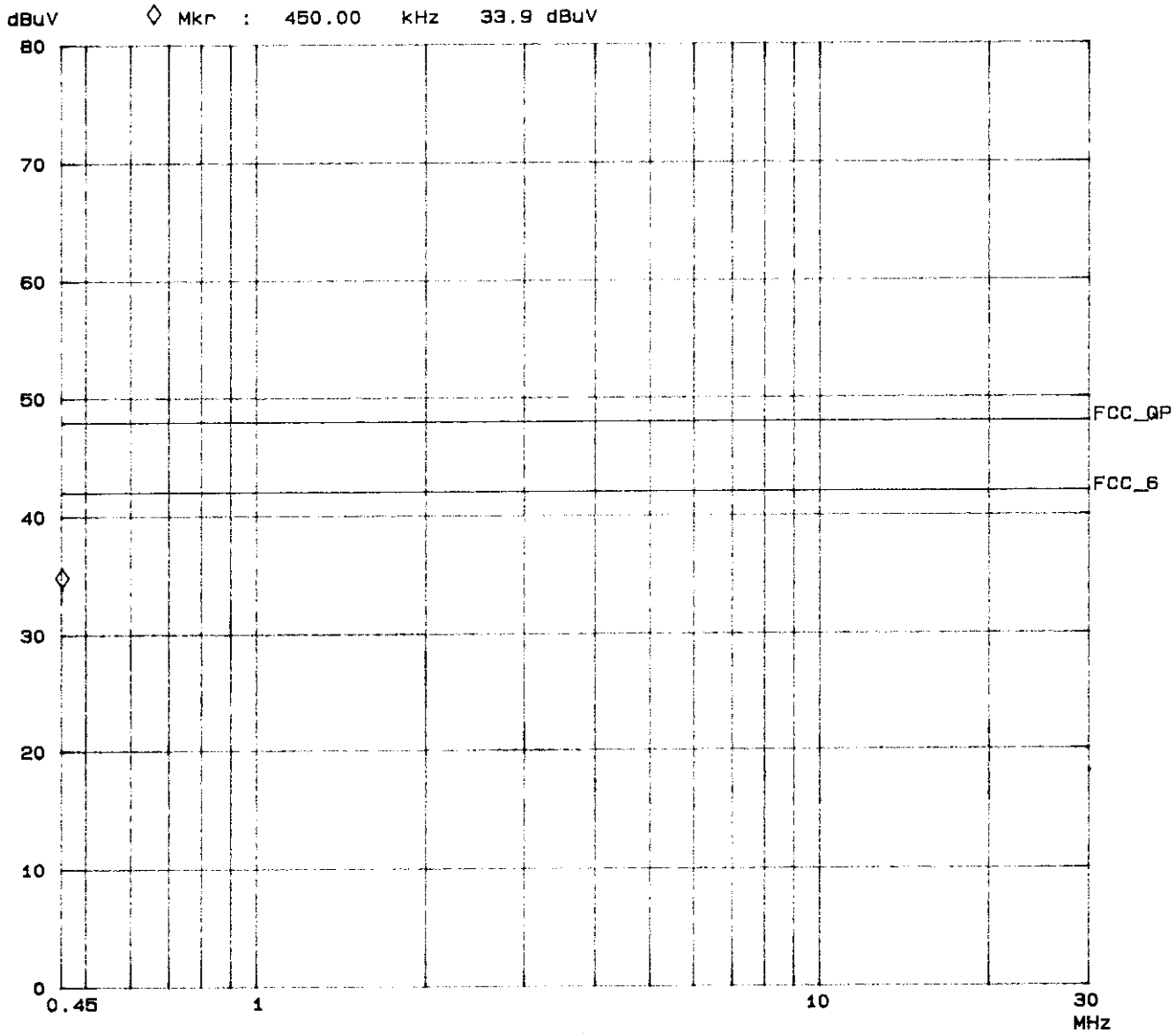
EUT:	CHANNEL SURFER TV
Manuf:	ADS
Op Cond:	FULL SYSTEM
Operator:	MILLER
Test Spec:	FCC CLASS B
Comment:	Line 1
	MODE: 3



ROHDE & SCHWARZ ESHS 30

GesTek, PowerLine Conducted Emission

EUT:	CHANNEL SURFER TV
Manuf:	ADS
Op Cond:	FULL SYSTEM
Operator:	MILLER
Test Spec:	FCC CLASS B
Comment:	Line 2
	MODE: 3



4. Radiation Emission Test

4.1 Test Equipment

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

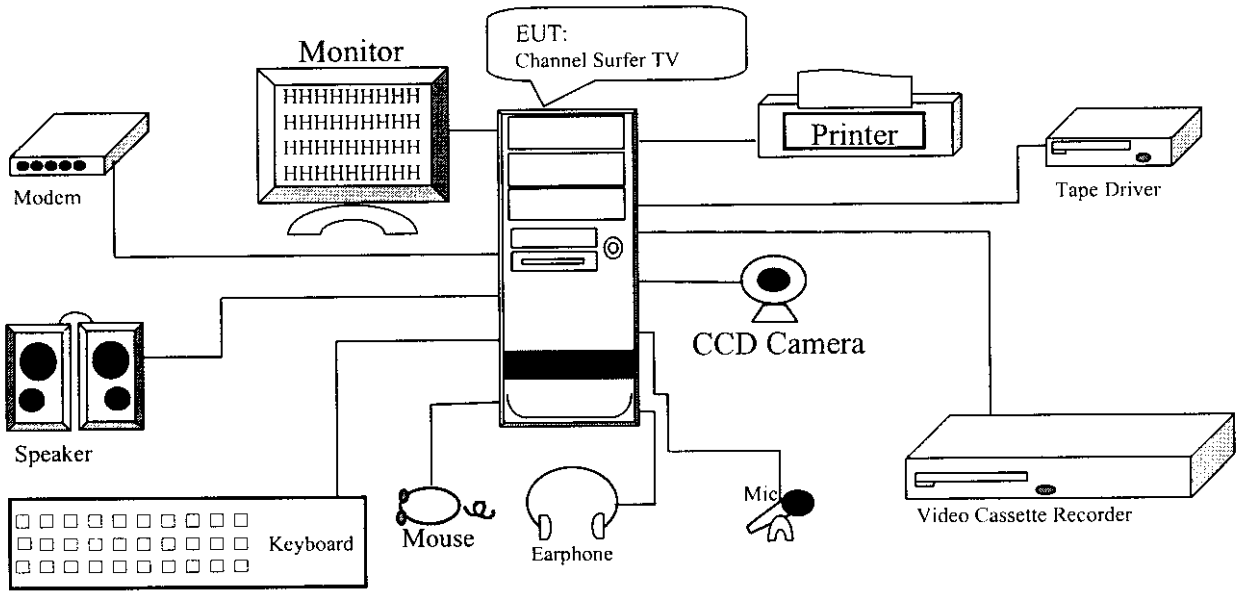
Radiated test was performed on : ☐Site #1 ☒Site #2

Instrument	Manufacturer	Type /Serial No.	Last Calibration	Site #1	Site #2
Test Receiver	Rohde & Schwarz	ESVS 30/829007/014	Nov. 15,1997	V	
Spectrum Analyzer	Anristu	MA2601B/MT16442	Jun. 11,1997	V	
Pre-Amplifier	HP	7447F/3113A04998	Nov. 16,1997	V	
Test Receiver	Rohde & Schwarz	ESVS 10/8421122/001	Dec. 26,1997		V
Spectrum Analyzer	HP	8568B/4315B05847	Jan. 05,1998		V
Pre Amplifier	HP	8447D/3113A04487	Jan. 05,1998		V
Antenna 30Mhz-2Ghz	Chase	CBL 6112/2039	Jan. 05,1998	V	
Bilog Antenna	Chase	CBL6111/1380	May. 22,1997		V
Dipole Antenna	Schwarzbeck	VHAP/719,UHAP/736	Jun.11,1997		

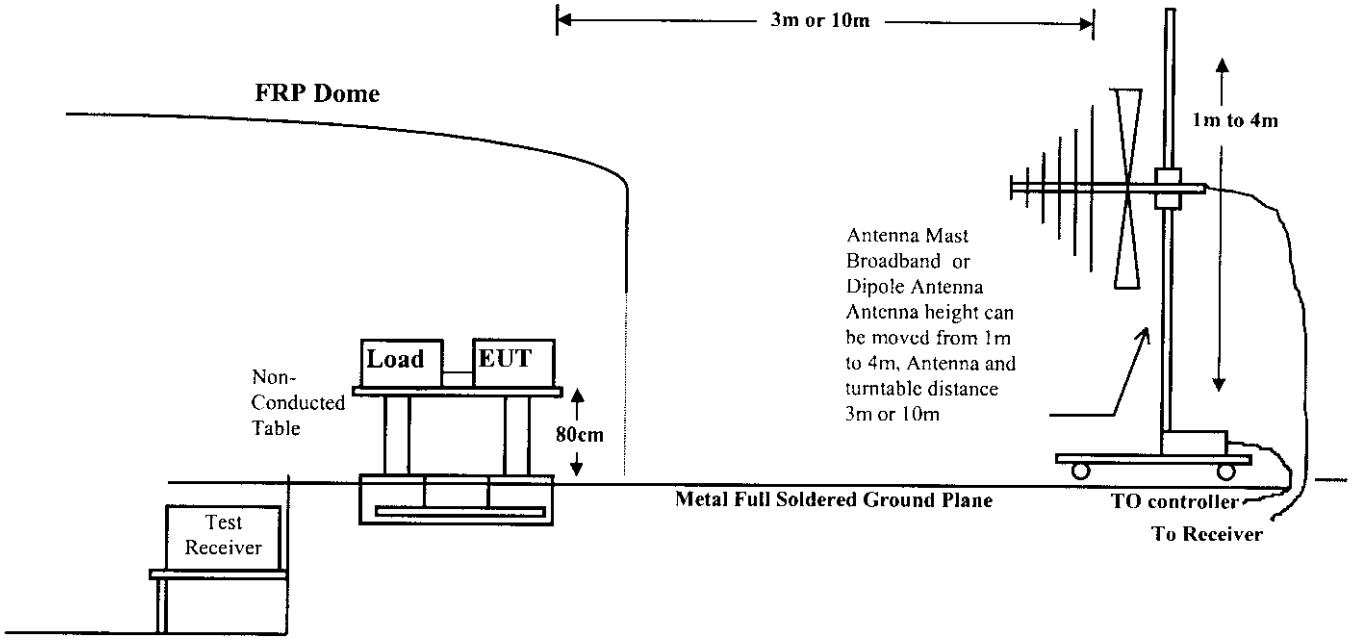
Note: All equipment upon which need to calibrated are with calibration period of 1 year.

4.2 Test Setup

4.2.1Block Diagram of Connections between EUT and simulators



4.2.2 Open Test Site Setup Diagram



4.3Radiated Emission Limit

4.3.1FCC Class B Limits at 3m

Frequency	Distance	Field Strength	
MHz	Meter	uV/M	dBuV/M
30 - 88	3	100	40.0
88 - 216	3	150	43.5
216 -960	3	200	46.0
960 - 2000	3	500	54.0

4.3.2CISPR Class B Limits at 10m

Frequency	Distance	Field Strength
MHz	Meter	dB(uV/M)
30 - 230	10	30
230 - 1000	10	37

Remark : 1. The tighter limit shall apply at the edge 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 device or system.

4.4 EUT Configuration

he equipments which is listed 4.2.1 are installed on Radiated Emission Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

4.5 Operating Condition of EUT

Same as Conducted Power Line Test which is listed in 3.5.

4.6 Radiated Emission Data

The measurement range of radiated emission which is from **30 MHz to 1 GHz** was investigated. All readings are quasi-peak values with a resolution Bandwidth of 120 KHz. The initial step in collecting radiated emission data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

The total uncertainty for this test is as follows:
- Uncertainty in the field strength measured (3m antenna distance): $< \pm 4$ dB
- Uncertainty in the field strength measured (10m antenna distance): $< \pm 4$ dB

The uncertainty is calculated in accordance with NAMAS document NIS 81, and is given as 2 standard deviations.

Radiated Emission Data

Date of Test :03-28,1998 Sat
EUT :CHANNEL SURFER TV
Working Cond.:Mode 1
Temperature :24.7 deg/C
Humidity :70 %RH
Display Pattern:N/A

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB)	Reading Level Horizontal (dBuV/m)	Emission Level Horizontal (dBuV/m)	Emission Level Horizontal (uV/m)	Limits (uV/m)
38.946	1.08	13.99	15.37	30.44	33.27	100
54.414	1.44	6.81	22.49	30.74	34.45	100
59.360	1.58	5.50	24.76	31.84	39.09	100
69.249	1.80	5.59	22.80	30.19	32.34	100
171.820	2.82	9.30	24.15	36.27	65.08	150
200.456	2.94	8.90	22.01	33.85	49.28	150
257.729	3.20	11.94	24.33	39.47	94.03	200
300.690	3.40	13.03	23.54	39.97	99.61	200
420.967	3.79	16.08	15.21	35.08	56.77	200
541.251	4.19	18.49	12.61	35.29	58.14	200
601.367	4.39	18.92	15.50	38.81	87.21	200
658.638	4.58	20.03	15.05	39.66	96.13	200
* 773.185	4.95	21.41	14.77	41.13	113.89	200

Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is worse case emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss
4. Deviations from the specifications: None.

Radiated Emission Data

Date of Test :03-28,1998 Sat
EUT :CHANNEL SURFER TV
Working Cond.:Mode 1
Temperature :24.7 deg/C
Humidity :70 %RH
Display Pattern:N/A

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB)	Reading Level Vertical (dBuV/m)	Emission Level Vertical (dBuV/m)	Emission Level Vertical (uV/m)	Limits (uV/m)
52.006	1.40	7.98	17.29	26.67	21.54	100
54.481	1.44	6.81	21.80	30.05	31.82	100
59.435	1.58	5.50	23.48	30.56	33.73	100
171.821	2.82	9.30	15.74	27.86	24.71	150
200.460	2.94	8.90	18.11	29.95	31.45	150
315.003	3.45	13.39	18.47	35.31	58.27	200
458.183	3.92	16.52	18.52	38.96	88.70	200
* 601.365	4.39	18.92	18.90	42.21	128.99	200
630.001	4.48	19.51	16.34	40.33	103.91	200
687.273	4.67	20.28	15.11	40.06	100.70	200
744.545	4.86	21.06	12.18	38.09	80.28	200
887.729	5.33	22.39	12.29	40.01	100.08	200

Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is worse case emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss
4. Deviations from the specifications: None.

Radiated Emission Data

Date of Test :03-28,1998 Sat
EUT :CHANNEL SURFER TV
Working Cond.:Mode 2
Temperature :25.3 deg/C
Humidity :70 %RH
Display Pattern:N/A

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB)	Reading Level Horizontal (dBuV/m)	Emission Level Horizontal (dBuV/m)	Emission Level Horizontal (uV/m)	Limits (uV/m)
64.580	1.67	5.41	12.17	19.24	9.16	100
183.622	2.87	8.76	10.99	22.62	13.53	150
200.455	2.94	8.90	13.76	25.60	19.06	150
257.730	3.20	11.94	20.48	35.62	60.36	200
291.201	3.35	12.61	14.63	30.60	33.87	200
420.978	3.79	16.08	12.67	32.54	42.37	200
551.527	4.22	18.85	12.13	35.20	57.57	200
601.367	4.39	18.92	15.37	38.68	85.92	200
* 658.639	4.58	20.03	16.68	41.29	115.97	200
773.182	4.95	21.41	10.41	36.77	68.94	200
801.820	5.04	21.71	11.90	38.66	85.68	200

Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is worse case emission level.
3.Emission Level = Reading Level + Antenna Factor + Cable loss
4.Deviations from the specifications: None.

Radiated Emission Data

Date of Test :03-28,1998 Sat
EUT :CHANNEL SURFER TV
Working Cond.:Mode 2
Temperature :25.3 deg/C
Humidity :70 %RH
Display Pattern:N/A

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB)	Reading Level Vertical (dBuV/m)	Emission Level Vertical (dBuV/m)	Emission Level Vertical (uV/m)	Limits (uV/m)
59.528	1.58	5.50	8.52	15.60	6.03	100
171.822	2.82	9.30	14.48	26.60	21.38	150
200.462	2.94	8.90	16.36	28.20	25.71	150
229.029	3.08	10.59	11.41	25.07	17.94	200
286.368	3.33	12.52	13.15	29.00	28.19	200
315.004	3.45	13.39	14.59	31.43	37.27	200
343.645	3.54	14.18	18.91	36.63	67.85	200
450.601	3.89	16.45	11.39	31.73	38.60	200
601.367	4.39	18.92	15.33	38.64	85.52	200
* 658.638	4.58	20.03	16.54	41.15	114.11	200
744.547	4.86	21.06	13.98	39.89	98.76	200
801.821	5.04	21.71	10.17	36.93	70.20	200

Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is worse case emission level.
3.Emission Level = Reading Level + Antenna Factor + Cable loss
4.Deviations from the specifications: None.

Radiated Emission Data

Date of Test :03-28,1998 Sat
EUT :CHANNEL SURFER TV
Working Cond.:Mode 3
Temperature :25.7 deg/C
Humidity :70 %RH
Display Pattern:N/A

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB)	Reading Level Horizontal (dBuV/m)	Emission Level Horizontal (dBuV/m)	Emission Level Horizontal (uV/m)	Limits (uV/m)
64.646	1.67	5.41	14.24	21.31	11.63	100
153.920	2.74	10.41	9.82	22.97	14.08	150
180.416	2.85	8.74	16.08	27.67	24.19	150
229.092	3.08	10.59	15.80	29.46	29.73	200
272.048	3.27	12.23	16.14	31.64	38.18	200
343.645	3.54	14.18	17.46	35.18	57.42	200
458.184	3.92	16.52	9.89	30.33	32.84	200
551.524	4.22	18.85	14.64	37.71	76.85	200
601.365	4.39	18.92	15.71	39.02	89.35	200
658.637	4.58	20.03	13.85	38.46	83.72	200
* 687.276	4.67	20.28	16.45	41.40	117.50	200
744.547	4.86	21.06	12.22	38.13	80.65	200
887.729	5.33	22.39	13.27	40.99	112.03	200

Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is worse case emission level.
3.Emission Level = Reading Level + Antenna Factor + Cable loss
4.Deviations from the specifications: None.

Radiated Emission Data

Date of Test :03-28,1998 Sat
EUT :CHANNEL SURFER TV
Working Cond.:Mode 3
Temperature :25.7 deg/C
Humidity :70 %RH
Display Pattern:N/A

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB)	Reading Level Vertical (dBuV/m)	Emission Level Vertical (dBuV/m)	(uV/m)	Limits (uV/m)
54.725	1.44	6.81	11.04	19.29	9.22	100
64.668	1.67	5.41	7.37	14.44	5.27	100
200.457	2.94	8.90	12.09	23.93	15.73	150
257.729	3.20	11.94	14.87	30.01	31.64	200
343.641	3.54	14.18	15.53	33.25	45.98	200
400.913	3.73	15.81	14.18	33.72	48.54	200
420.970	3.79	16.08	11.99	31.86	39.18	200
601.367	4.39	18.92	17.66	40.97	111.83	200
658.639	4.58	20.03	14.12	38.73	86.37	200
* 744.549	4.86	21.06	16.43	42.34	130.94	200
830.458	5.14	22.09	10.75	37.98	79.27	200

Remarks: 1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is worse case emission level.
3.Emission Level = Reading Level + Antenna Factor + Cable loss
4.Deviations from the specifications: None.

6. EMI Reduction Method During Compliance Testing

No modification was made during testing.