Marstech Limited

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Authorized by: Professional Engineers Ontario

Engineering & Administrative

CERTIFICATED UL AGENCY

Testing For FCC Submissions/Verifications

Industry Canada / Industrie Canada

Approved Test Facility

Qualified SP Facility

TEST REPORT			
REPORT DATE:	20 August 1998		REPORT NO: 98287D
CONTENTS:	See Table of Contents		
SUBMITTOR:	TEC CORPORATION 6-78 Minami-Cho Mishima-Shi, Shizuoka-Ken 411-8520 JAPAN		
SUBJECT:	Model Nos:	TF 471	
	FCC ID:	BJIOH-98002	
TEST SPECIFICATION	FCC CFR 47 Sections: 15, Subpart B NOTE: Tests Conducted Are "Type" Tests.		
DATE SAMPLE RECEIVED:	N/A	DATE TESTED:	27 May 1998
RESULTS:	Equipment tested complies with referenced specification.		
ALTERATIONS	None		
Tested By:	EMC Japan Corporation	Approved and Certified by:	Robert G. Marshall, P. Eng.
		Date:	24 Aug 98

REGISTERED PROFESSIONAL ENGINEER R. G. MARSHALL

TECHNICAL REPORT - FCC 2.1033(b)

Applicant

TEC Corporation
6-78 Minami-Cho, Mishima-Shi
Shizuoka-Ken, JAPAN

FCC Identifier

BJIOH-98002

Manufacturer

TIM Electronics SDN BHD
Bayan Lepas, Penang
MALAYSIA

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Exhibit	Description	FCC Ref.	Page
A	Installation and Operating Instructions Furnished to the User.	2.1033(b)(3)	Exhibit A Exhibit A(1)
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C	Block and Schematic Diagrams	2.1033(b)(5)	Exhibit C
	Block Diagram		Exhibit C(1)-1 to -3
	Schematic Diagram		Exhibit C(2)-1 to -23
D	Report of Measurements/Test Facility/ Test Equipment List	2.1033(b)(6)	Exhibit D Exhibit D(1) [36 Pages]
E	Photographs	2.1033(b)(7)	Exhibit E
	Label		Exhibit E(1)-1 to -2
	Equipment		Exhibit E(2)-1 to -16

EXHIBIT D

(FCC Ref. 2.1033(b)(6))

"Report of Measurements/Test Facility/Test Equipment List"

EMCJ
EMC Japan Corp.

TEST REPORT

ORDER No. : 98051083

DATE : Jun. 3. 1998

CUSTOMER : TEC CORPORATION

EMC Japan Corporation

EMCJ

EMC Japan Corp.

EMC TEST REPORT

Test Order NO. : 98051083

Jun. 3, 1998

1. APPLICANT

- Company name :TEC CORPORATION
  :6-78, Minami-cho, Mishima-shi, Shizuokaken,
  411-8520 Japan
  Phone:0559-76-7293

2. EQUIPMENT UNDER TEST (E.U.T.)

- Device Name :Facsimile
- Model Number :TF471
- Serial Number :97120006

3. SUMMARY OF TEST RESULTS

Emission test item	Basic standard	Result
RADIATED EMISSION MEASUREMENTS	FCC Part 15 Subpart B Class B:1996	Complies
CONDUCTED EMISSION MEASUREMENTS	FCC Part 15 Subpart B Class B:1996	Complies

4. DATE OF TEST

- Test Item received :May. 26. 1998
- Test Completed on :May. 27. 1998

- Test Performed by : E. Okuyama Date : May. 26, 27. 1998
- Test Report Made by : Y. Suzuki Date : Jun. 3. 1998
- Test Report Approved by : Y. Suzuki Date : Jun. 3. 1998

5. TEST PLACE

- Place :EMC Japan Corporation TSUKUI TEST SITE NO. 1
- Address :2142 Negoya Tsukui-Machi
  Kanagawa, 220-0203 Japan

EQUIPMENT

No.	Equipment	Manufacturer	Model No.	Serial No.	Note
1	Facsimile	TEC CORPORATION	TF471	97120006	EUT
2	PC	TOSHIBA	PA1196U	8516346	FCC ID:GCJUK323
3	Printer	HEWLETT PACKARD COMPANY	3630A	3040A643/3	FCC ID: BSD853363630A
4	Telephone	NORTHWESTERN BELL PHONES	BELL PHONE	k:J7802	FCC ID: DHT6CJ-14584-TE-
5	Mouse	Microsoft Corporation	68874	2311996	FCC ID:C3KKZBI
6	Facsimile	TEC CORPORATION	TF121	95060043	FCC ID: BJIOH-950025 (CONTROLLER)

USED CABLE

No.	Cable Name	Manufacturer	Length (m)	Bundled Length	Shield	Core	Note
a	AC Cable	TEC CORPORATION	2.0 m	1.0 m	none	none	
b	Modular Cable	TEC CORPORATION	2.0 m	1.0 m	none	none	
c	Modular Cable	TEC CORPORATION	2.0 m	0.8 m	none	none	
d	RS232C Cable	BELKIN	1.5 m	0.5 m	none	none	
e	Parallele Cable	ABEERU CORPORATION	1.8 m	1.2 m	none	none	
f	RGB Cable	————	0.05m	———	——	—	

RADIATED EMISSION

FCC Part 15 Subpart B Class B:1996

List of measurement equipment

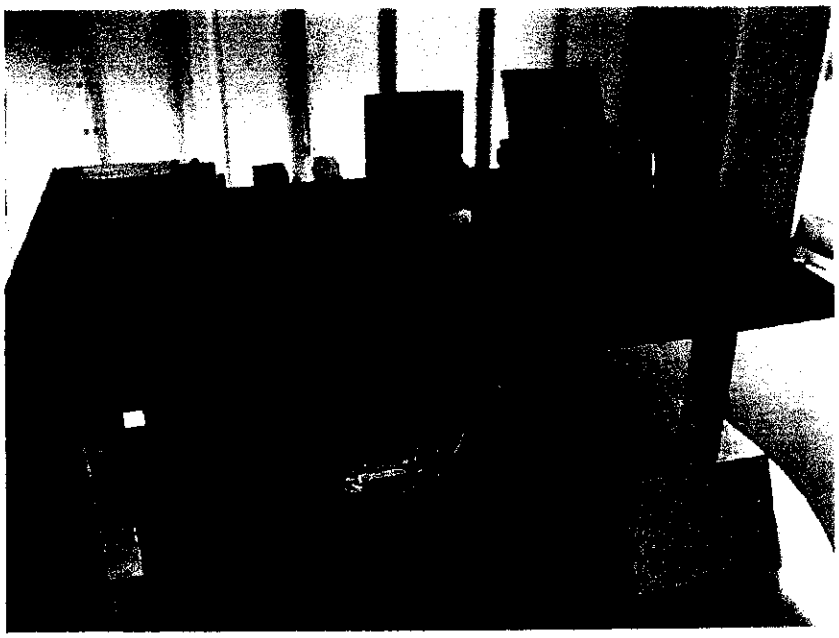
ITEM	MANUFACTURER	MODEL	Serial No.
TEST RECEIVER	ROHDE SCHWARZ	ESV	891814/025
TEST RECEIVER	ROHDE SCHWARZ	ESH2	892237/016
SPECTRUM ANALIZER	HEWLETT PACKARD	8567A	2841A00577/ 2848A17271
RF PRE AMP	HEWLETT PACKARD	8447D	2727A05810
LISN	ROHDE SCHWARZ	ESH2-Z5	892602/006
SPECTRUM ANALIZER	HEWLETT PACKARD	8562B	2923A 00418
RF PRE AMP	HEWLETT PACKARD	8449B	3008A00791
CAL. DIPOLE ANTENNA	SCHWARZBECK	VHAP	450/451
CAL. DIPOLE ANTENNA	SCHWARZBECK	UHAP	429/430
DIPOLE ANTENNA	SCHWARZBECK	VHA9103	none
DIPOLE ANTENNA	SCHWARZBECK	UHA9105	none
BICONICAL ANTENNA	SCHWARZBECK	BBA9106	none
LOG-PERI ANTENNA	SCHWARZBECK	UHALP9107	none
LOOP ANTENNA	ROHDE SCHWARZ	HFH2-Z2	893.1053/003
HORN ANTENNA HORN ANTENNA	SCHWARZBECK SCHWARZBECK	BBHA 9120-B BBHA 9120-B	121 122
HORN ANTENNA HORN ANTENNA	EMCO(CMT) EMCO(CMT)	3160-07 3160-08	9603-1048 9508-1035
HORN ANTENNA HORN ANTENNA	EMCO(CMT) EMCO(CMT)	3160-09 3160-10	9707-1086 9704-1051

Test Plan

DATE:May.26,1998, May.27,1998	Condition: 16℃ 58%, 18℃ 86%
The size of EUT	(347.5(W)× 146.5(H)× 397.5(D)mm) 7.0 kg
Representative operating conditions of the EUT	STANDBY MODE, COPY MODE, TRANSMITTING MODE, RECEIVING MODE, PC PRINT MODE, PC SCAN MODE
Disposition	Table Top,above the ground plane 0.8m
The type of test facility	Open site
The position of the receiving antenna	Height 1-4m at 3 meters distance from the EUT
The type of antenna to be used	Biconical(BBA9106), Log-Peri(UHALP9107)
Test frequency	30MHz-1000MHz
The performance criteria which are acceptable	EUT Complies with Limits of FCC Part 15 Subpart B Class B:1996
Power Supply	A.C.120V / 1.8A

Radiated Emissions Test Setup

TYPE : TF471



Setup1 : 30MHz~1000MHz FRONT&REAR

FCC Part 15 Subpart B Class B:1996

RADIATED EMISSION TEST RESULTS

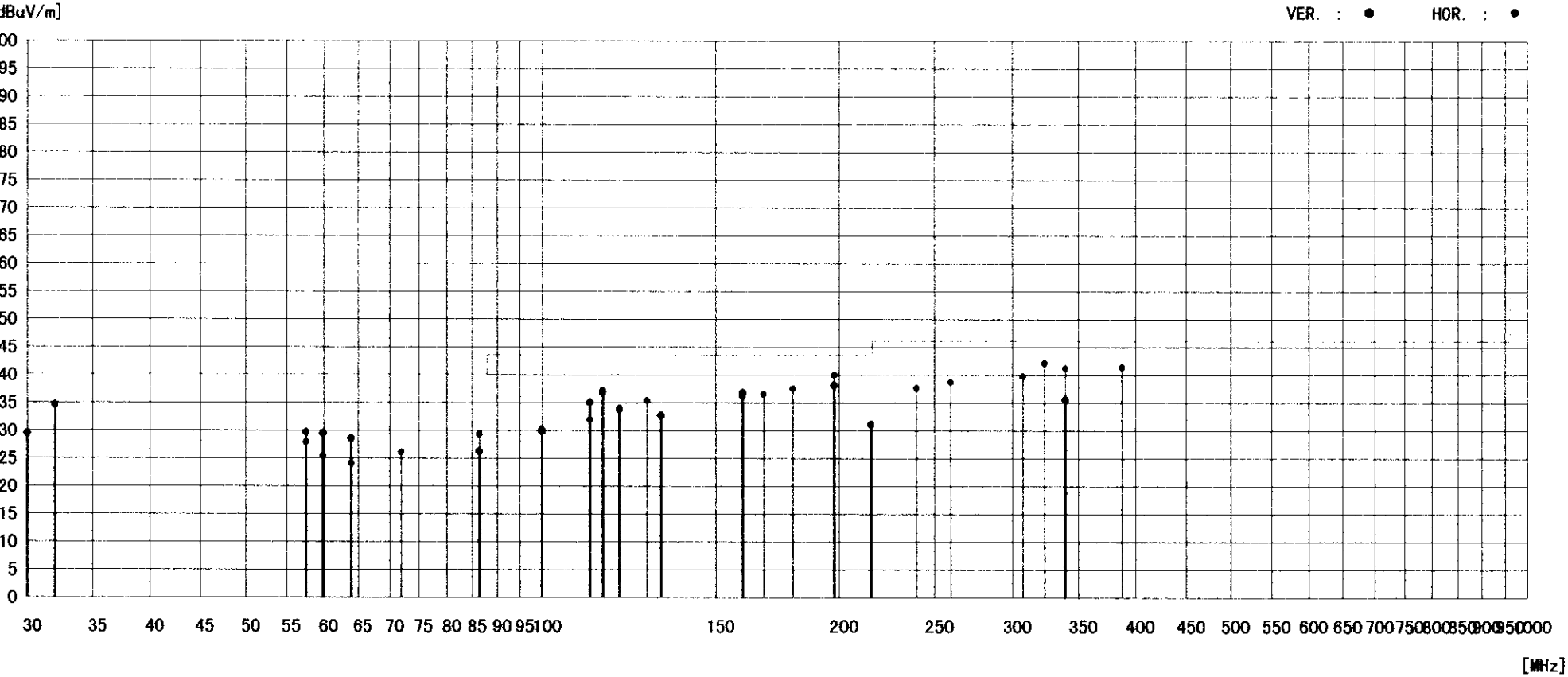
COMPANY : TEC CORPORATION
MODEL NAME : Facsimile
MODEL NO. : TF471
POWER : 120V 1.8A 60Hz
:
TEMP : 16℃ 88%
DESCRIPTION : SERIAL NO.97120006
:

REPORT NO. : 98051083
STANDARD : FCC Part 15
CLASS : B
DISTANCE : 3m
TEST MODE : STANDBY MODE
ENGINEER : E.OKUYAMA

LIMIT1 : FCC Part15 Subpart.B Class B (3m)
LIMIT2 :

	FREQUENCY [MHz]	METER READING VER. [dBuV]	HOR. [dBuV]	FACTOR [dB]	FIELD STRENGTH VER. [dBuV/m]	HOR. [dBuV/m]	LIMITS [dBuV/m]	MARGIN VER. [dBuV/m]	MARGIN HOR. [dBuV/m]	MEMO
1	30.000	36.5		-7.1	29.4		40.0	10.6		BROAD NOISE
2	32.000	42.5		-7.9	34.6		40.0	5.4		
3	57.600	46.2	44.4	-16.6	29.6	27.8	40.0	10.4	12.2	
4	59.900	46.6	42.5	-17.2	29.4	25.3	40.0	10.6	14.7	
5	63.900	46.1	41.6	-17.6	28.5	24.0	40.0	11.5	16.0	
6	71.900		44.2	-18.2		26.0	40.0		14.0	
7	86.400	43.1	46.2	-16.9	26.2	29.3	40.0	13.8	10.7	
8	99.850	43.2	43.6	-13.4	29.8	30.2	43.5	13.7	13.3	
9	111.800	46.8	43.7	-11.8	35.0	31.9	43.5	8.5	11.6	
10	115.200	48.2	48.5	-11.4	36.8	37.1	43.5	6.7	6.4	
11	119.800	44.7	44.5	-10.8	33.9	33.7	43.5	9.6	9.8	
12	127.800		45.5	-10.2		35.3	43.5		8.2	
13	131.950	42.5		-9.8	32.7		43.5	10.8		
14	159.750	44.2	43.6	-7.4	36.8	36.2	43.5	6.7	7.3	
15	167.750		43.5	-7.0		36.5	43.5		7.0	
16	179.700		43.8	-6.3		37.5	43.5		6.0	
17	197.950	43.6	45.4	-5.5	38.1	39.9	43.5	5.4	3.6	
18	215.650	36.3		-5.2	31.1		43.5	12.4		
19	239.600		42.6	-5.0		37.6	46.0		8.4	
20	259.600		43.1	-4.5		38.6	46.0		7.4	
21	307.500		44.5	-4.8		39.7	46.0		6.3	
22	323.450		46.6	-4.6		42.0	46.0		4.0	
23	339.450	39.9	45.5	-4.3	35.6	41.2	46.0	10.4	4.8	
24	387.400		45.1	-3.7		41.4	46.0		4.6	

COMPANY	: TEC CORPORATION	REPORT NO.	: 98051083
MODEL NAME	: Facsimile	STANDARD	: FCC Part 15
MODEL NO.	: TF471	CLASS	: B
POWER	: 120V 1.8A 60Hz	DISTANCE	: 3m
	:	TEST MODE	: STANDBY MODE
TEMP	: 16℃ 88%	ENGINEER	: E.OKUYAMA
DESCRIPTION	: SERIAL NO.97120006		
	:		
LIMIT1	: FCC Part15 Subpart.B Class B (3m)		
LIMIT2	:		



COMPANY : TEC CORPORATION
MODEL NAME : Facsimile
MODEL NO. : TF471
POWER : 120V 1.8A 60Hz
:
TEMP : 16℃ 88%
DESCRIPTION : SERIAL NO.97120006
:

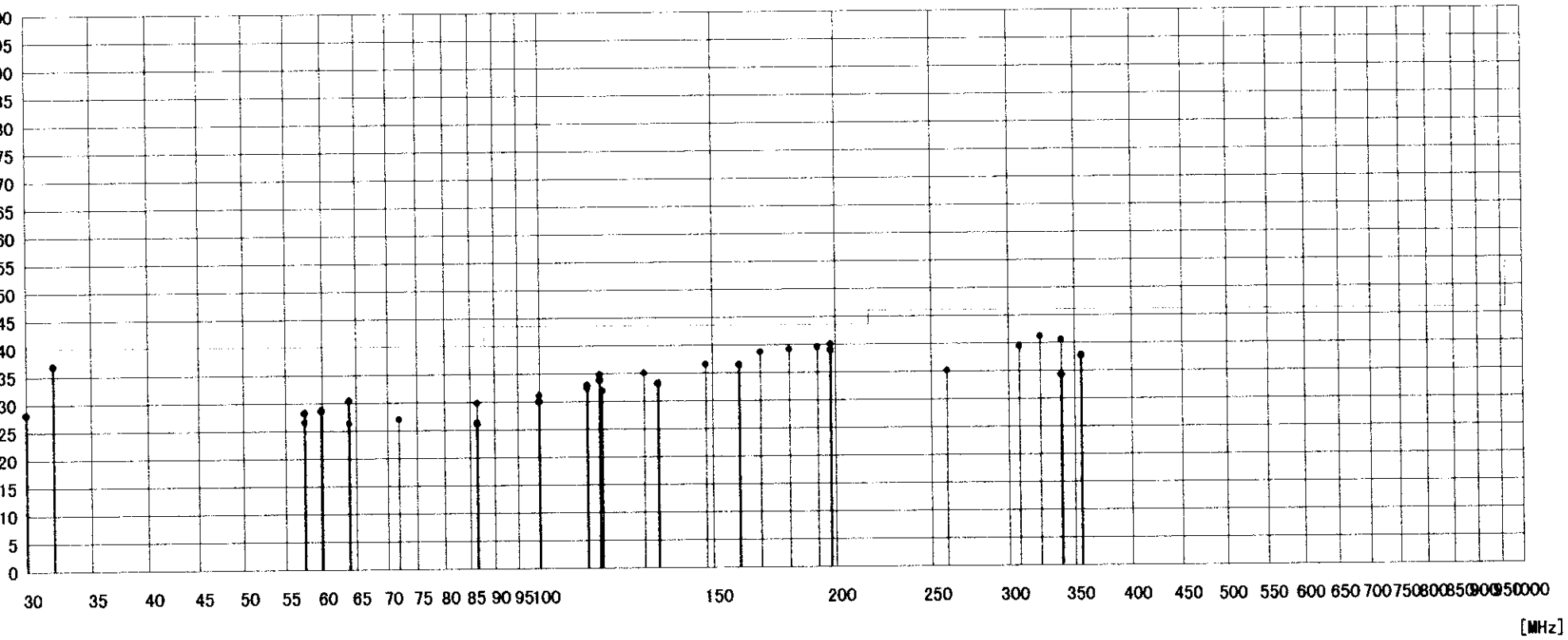
REPORT NO. : 98051083
STANDARD : FCC Part 15
CLASS : B
DISTANCE : 3m
TEST MODE : COPY MODE
ENGINEER : E.OKUYAMA

LIMIT1 : FCC Part15 Subpart.B Class B (3m)
LIMIT2 :

	FREQUENCY	METER READING VER.	HOR.	FACTOR	FIELD STRENGTH VER.	HOR.	LIMITS	MARGIN VER.	MARGIN HOR.	MEMO
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	
1	30.000	35.1		-7.1	28.0		40.0	12.0		BROAD NOISE
2	32.000	44.8		-7.9	36.9		40.0	3.1		
3	57.600	44.8	43.1	-16.6	28.2	26.5	40.0	11.8	13.5	
4	59.900	45.7	45.9	-17.2	28.5	28.7	40.0	11.5	11.3	
5	63.900	47.9	43.9	-17.6	30.3	26.3	40.0	9.7	13.7	
6	71.900		45.2	-18.2		27.0	40.0		13.0	
7	86.400	43.1	46.7	-16.9	26.2	29.8	40.0	13.8	10.2	
8	99.850	43.4	44.5	-13.4	30.0	31.1	43.5	13.5	12.4	
9	111.800	44.6	44.1	-11.8	32.8	32.3	43.5	10.7	11.2	
10	115.200	45.1	46.2	-11.4	33.7	34.8	43.5	9.8	8.7	
11	115.800		43.1	-11.3		31.8	43.5		11.7	
12	127.800		45.2	-10.2		35.0	43.5		8.5	
13	131.950	42.9		-9.8	33.1		43.5	10.4		
14	147.750		45.1	-8.6		36.5	43.5		7.0	
15	159.750	43.8		-7.4	36.4		43.5	7.1		
16	167.750		45.6	-7.0		38.6	43.5		4.9	
17	179.700		45.4	-6.3		39.1	43.5		4.4	
18	191.700		45.2	-5.8		39.4	43.5		4.1	
19	197.750	44.4	45.5	-5.5	38.9	40.0	43.5	4.6	3.5	
20	259.600		39.6	-4.5		35.1	46.0		10.9	
21	307.500		44.1	-4.8		39.3	46.0		6.7	
22	323.450		45.7	-4.6		41.1	46.0		4.9	
23	339.450	38.6	44.9	-4.3	34.3	40.6	46.0	11.7	5.4	
24	355.450	41.8		-4.1	37.7		46.0	8.3		

COMPANY	: TEC CORPORATION	REPORT NO.	: 98051083
MODEL NAME	: Facsimile	STANDARD	: FCC Part 15
MODEL NO.	: TF471	CLASS	: B
POWER	: 120V 1.8A 60Hz	DISTANCE	: 3m
	:	TEST MODE	: COPY MODE
TEMP	: 16℃ 88%	ENGINEER	: E.OKUYAMA
DESCRIPTION	: SERIAL NO.97120006		
	:		
LIMIT1	: FCC Part15 Subpart.B Class B (3m)		
LIMIT2	:		

VER. : ● HOR. : ●



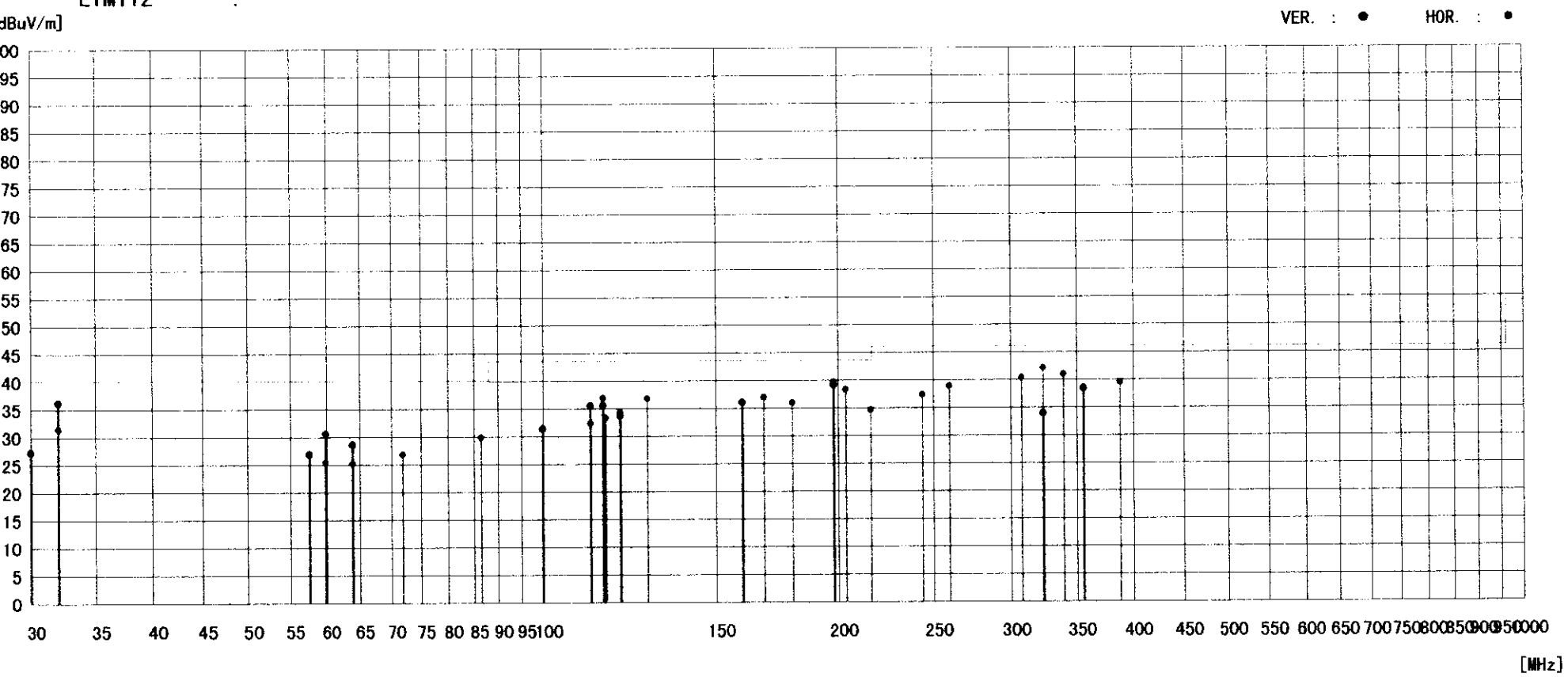
COMPANY : TEC CORPORATION
MODEL NAME : Facsimile
MODEL NO. : TF471
POWER : 120V 1.8A 60Hz
:
TEMP : 16℃ 88%
DESCRIPTION : SERIAL NO.97120006
:

REPORT NO. : 98051083
STANDARD : FCC Part 15
CLASS : B
DISTANCE : 3m
TEST MODE : TRANSMITTING MODE
ENGINEER : E.OKUYAMA

LIMIT1 : FCC Part15 Subpart.B Class B (3m)
LIMIT2 :

	FREQUENCY	METER READING VER.	HOR.	FACTOR	FIELD STRENGTH VER.	HOR.	LIMITS	MARGIN VER.	MARGIN HOR.	MEMO
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	
1	30.000	34.3		-7.1	27.2		40.0	12.8		BROAD NOISE
2	32.000	44.1	39.3	-7.9	36.2	31.4	40.0	3.8	8.6	
3	57.600	43.4		-16.6	26.8		40.0	13.2		
4	59.900	47.7	42.6	-17.2	30.5	25.4	40.0	9.5	14.6	
5	63.900	46.2	42.8	-17.6	28.6	25.2	40.0	11.4	14.8	
6	71.900		44.9	-18.2		26.7	40.0		13.3	
7	86.400		46.7	-16.9		29.8	40.0		10.2	
8	99.850	44.7	44.8	-13.4	31.3	31.4	43.5	12.2	12.1	
9	111.800	47.3	44.1	-11.8	35.5	32.3	43.5	8.0	11.2	
10	115.200	46.9	48.2	-11.4	35.5	36.8	43.5	8.0	6.7	
11	115.800		44.6	-11.3		33.3	43.5		10.2	
12	119.800	44.5	45.1	-10.8	33.7	34.3	43.5	9.8	9.2	
13	127.800		46.9	-10.2		36.7	43.5		6.8	
14	159.750	43.4		-7.4	36.0		43.5	7.5		
15	167.750		43.9	-7.0		36.9	43.5		6.6	
16	179.700		42.2	-6.3		35.9	43.5		7.6	
17	197.950	44.6	45.1	-5.5	39.1	39.6	43.5	4.4	3.9	
18	203.650		43.6	-5.4		38.2	43.5		5.3	
19	215.650		39.8	-5.2		34.6	43.5		8.9	
20	243.600		42.2	-5.0		37.2	46.0		8.8	
21	259.600		43.4	-4.5		38.9	46.0		7.1	
22	307.500		45.1	-4.8		40.3	46.0		5.7	
23	323.500	38.4	46.6	-4.6	33.8	42.0	46.0	12.2	4.0	
24	339.450		45.3	-4.3		41.0	46.0		5.0	
25	355.450	42.5	42.6	-4.1	38.4	38.5	46.0	7.6	7.5	
26	387.400		43.2	-3.7		39.5	46.0		6.5	

COMPANY	: TEC CORPORATION	REPORT NO.	: 98051083
MODEL NAME	: Facsimile	STANDARD	: FCC Part 15
MODEL NO.	: TF471	CLASS	: B
POWER	: 120V 1.8A 60Hz	DISTANCE	: 3m
	:	TEST MODE	: TRANSMITTING MODE
TEMP	: 16℃ 88%	ENGINEER	: E.OKUYAMA
DESCRIPTION	: SERIAL NO.97120006		
	:		
LIMIT1	: FCC Part15 Subpart.B Class B (3m)		
LIMIT2	:		



COMPANY : TEC CORPORATION
MODEL NAME : Facsimile
MODEL NO. : TF471
POWER : 120V 1.8A 60Hz
:
TEMP : 16℃ 88%
DESCRIPTION : SERIAL NO.97120006
:

REPORT NO. : 98051083
STANDARD : FCC Part 15
CLASS : B
DISTANCE : 3m
TEST MODE : RECEIVING MODE
ENGINEER : E.OKUYAMA

LIMIT1 : FCC Part15 Subpart.B Class B (3m)
LIMIT2 :

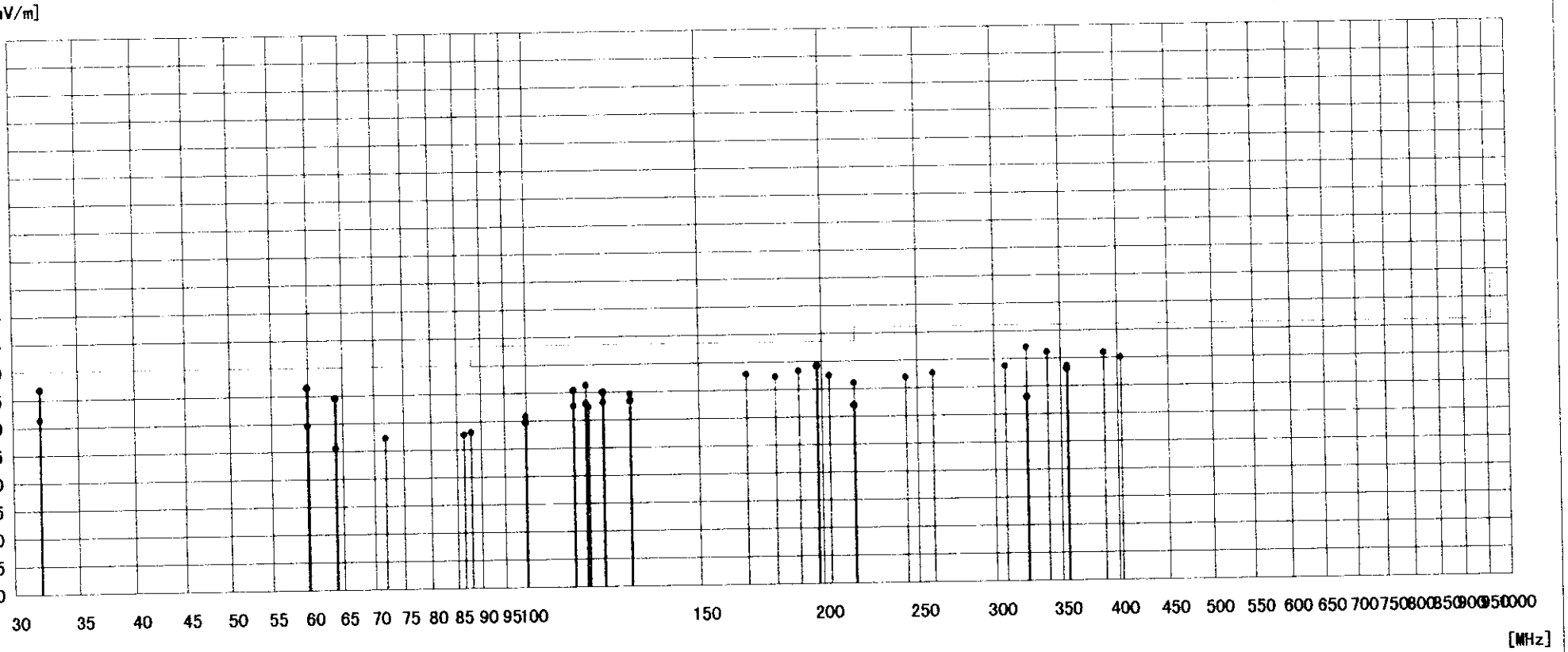
	FREQUENCY	METER READING VER.	HOR.	FACTOR	FIELD STRENGTH VER.	HOR.	LIMITS	MARGIN VER.	MARGIN HOR.	MEMO
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	
1	32.00	44.7	39.2	-7.9	36.8	31.3	40.0	3.2	8.7	
2	59.90	53.6	46.7	-17.2	36.	29.5	40.0	3.6	10.5	
3	63.900	52.1	43.1	-17.6	34.5	25.5	40.0	5.5	14.5	
4	71.900		45.4	-18.2		27.2	40.0		12.8	
5	86.400		44.5	-16.9		27.6	40.0		12.4	
6	87.900		44.7	-16.7		28.0	40.0		12.0	
7	99.850	43.1	44.2	-13.4	29.7	30.8	43.5	13.8	12.7	
8	111.800	47.1	44.3	-11.8	35.3	32.5	43.5	8.2	11.0	
9	115.200	44.3	47.6	-11.4	32.9	36.2	43.5	10.6	7.3	
10	115.800		43.6	-11.3		32.3	43.5		11.2	
11	119.800	45.8	43.9	-10.8	35.0	33.1	43.5	8.5	10.4	
12	127.800	43.5	44.7	-10.2	33.3	34.5	43.5	10.2	9.0	
13	167.750		44.8	-7.0		37.8	43.5		5.7	
14	179.700		43.6	-6.3		37.3	43.5		6.2	
15	189.600		44.1	-5.9		38.2	43.5		5.3	
16	197.950	44.6	44.7	-5.5	39.1	39.2	43.5	4.4	4.3	
17	203.650		42.7	-5.4		37.3	43.5		6.2	
18	215.650	37.2	41.2	-5.2	32.0	36.0	43.5	11.5	7.5	
19	243.600		41.9	-5.0		36.9	46.0		9.1	
20	259.600		42.1	-4.5		37.6	46.0		8.4	
21	307.500		43.4	-4.8		38.6	46.0		7.4	
22	323.500	37.6	46.5	-4.6	33.0	41.9	46.0	13.0	4.1	
23	339.450		45.4	-4.3		41.1	46.0		4.9	
24	355.450	42.2	42.7	-4.1	38.1	38.6	46.0	7.9	7.4	
25	387.400		44.7	-3.7		41.0	46.0		5.0	
26	403.350		43.5	-3.5		40.0	46.0		6.0	

C JAPAN Corporation NO1 SITE 1998/05/26

COMPANY : TEC CORPORATION
MODEL NAME : Facsimile
MODEL NO. : TF471
POWER : 120V 1.8A 60Hz
:
TEMP : 16℃ 88%
DESCRIPTION : SERIAL NO.97120006
:
LIMIT1 : FCC Part15 Subpart.B Class B (3m)
LIMIT2 :

REPORT NO. : 98051083
STANDARD : FCC Part 15
CLASS : B
DISTANCE : 3m
TEST MODE : RECEIVING MODE
ENGINEER : E.OKUYAMA

VER. : ● HOR. : ●



Date

COMPANY : TEC CORPORATION
MODEL NAME : Facsimile
MODEL NO. : TF471
POWER : 120V 1.8A 60Hz
:
TEMP : 18℃ 86%
DESCRIPTION : SERIAL NO.97120006
:

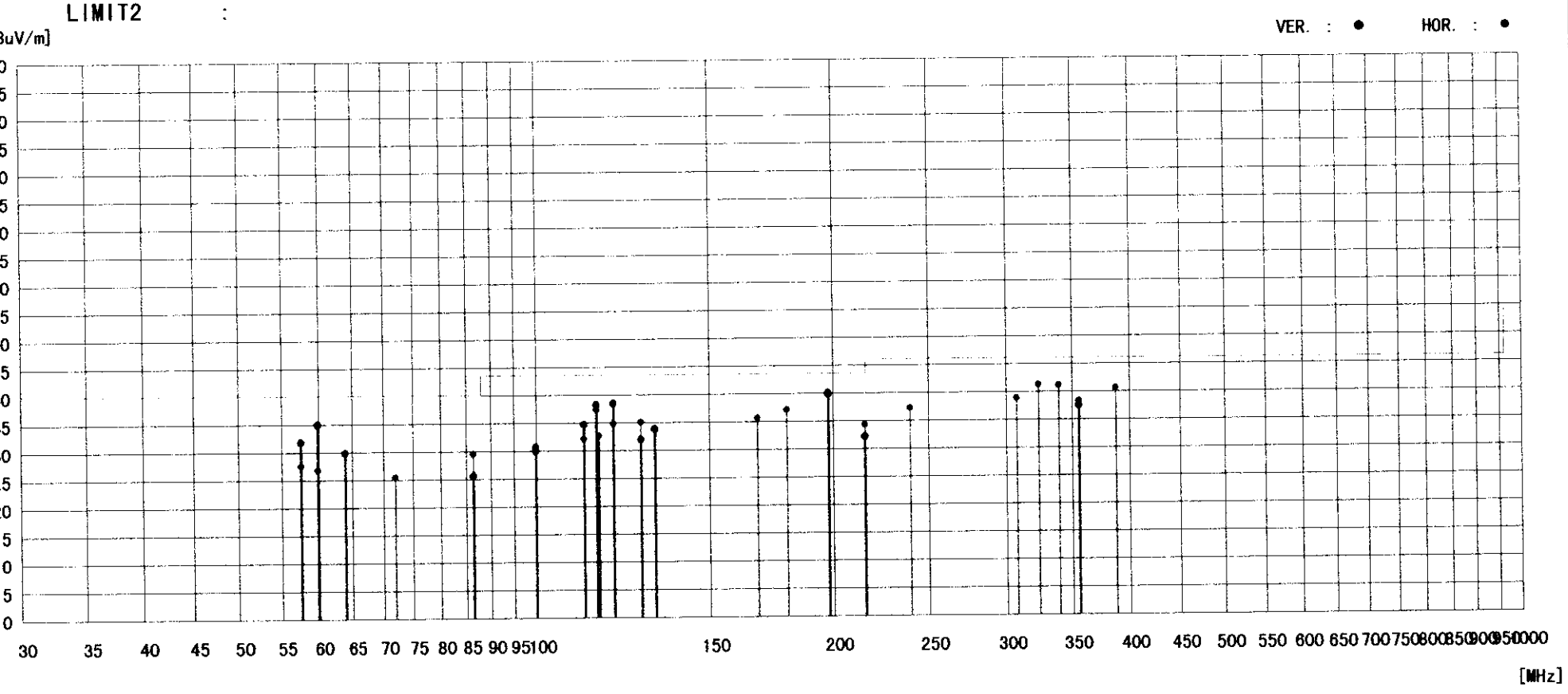
REPORT NO. : 98051083
STANDARD : FCC Part 15
CLASS : B
DISTANCE : 3m
TEST MODE : PC PRINT MODE
ENGINEER : E.OKUYAMA

LIMIT1 : FCC Part15 Subpart.B Class B (3m)
LIMIT2 :

	FREQUENCY	METER READING VER.	HOR.	FACTOR	FIELD STRENGTH VER.	HOR.	LIMITS	MARGIN VER.	MARGIN HOR.	MEMO
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	
1	57.60	48.3	44.1	-16.6	31.	27.5	40.0	8.3	12.5	
2	59.900	52.1	43.9	-17.2	34.9	26.7	40.0	5.1	13.3	
3	63.900	47.4		-17.6	29.8		40.0	10.2		
4	71.900		43.6	-18.2		25.4	40.0		14.6	
5	86.400	42.5	46.4	-16.9	25.6	29.5	40.0	14.4	10.5	
6	99.850	43.4	44.1	-13.4	30.0	30.7	43.5	13.5	12.8	
7	111.800	46.4	43.9	-11.8	34.6	32.1	43.5	8.9	11.4	
8	115.200	49.6	48.7	-11.4	38.2	37.3	43.5	5.3	6.2	
9	115.800		43.9	-11.3		32.6	43.5		10.9	
10	119.800	49.2	45.5	-10.8	38.4	34.7	43.5	5.1	8.8	
11	127.800	42.1	45.2	-10.2	31.9	35.0	43.5	11.6	8.5	
12	131.950	43.6		-9.8	33.8		43.5	9.7		
13	167.750		42.6	-7.0		35.6	43.5		7.9	
14	179.700		43.4	-6.3		37.1	43.5		6.4	
15	197.950	45.3	45.6	-5.5	39.8	40.1	43.5	3.7	3.4	
16	215.650	37.4	39.5	-5.2	32.2	34.3	43.5	11.3	9.2	
17	239.600		42.2	-5.0		37.2	46.0		8.8	
18	307.500		43.6	-4.8		38.8	46.0		7.2	
19	323.500		45.8	-4.6		41.2	46.0		4.8	
20	339.450		45.4	-4.3		41.1	46.0		4.9	
21	355.450	41.6	42.4	-4.1	37.5	38.3	46.0	8.5	7.7	
22	387.400		44.3	-3.7		40.6	46.0		5.4	

COMPANY : TEC CORPORATION
MODEL NAME : Facsimile
MODEL NO. : TF471
POWER : 120V 1.8A 60Hz
:
TEMP : 18℃ 86%
DESCRIPTION : SERIAL NO.97120006
:
LIMIT1 : FCC Part15 Subpart.B Class B (3m)
LIMIT2 :

REPORT NO. : 98051083
STANDARD : FCC Part 15
CLASS : B
DISTANCE : 3m
TEST MODE : PC PRINT MODE
ENGINEER : E.OKUYAMA



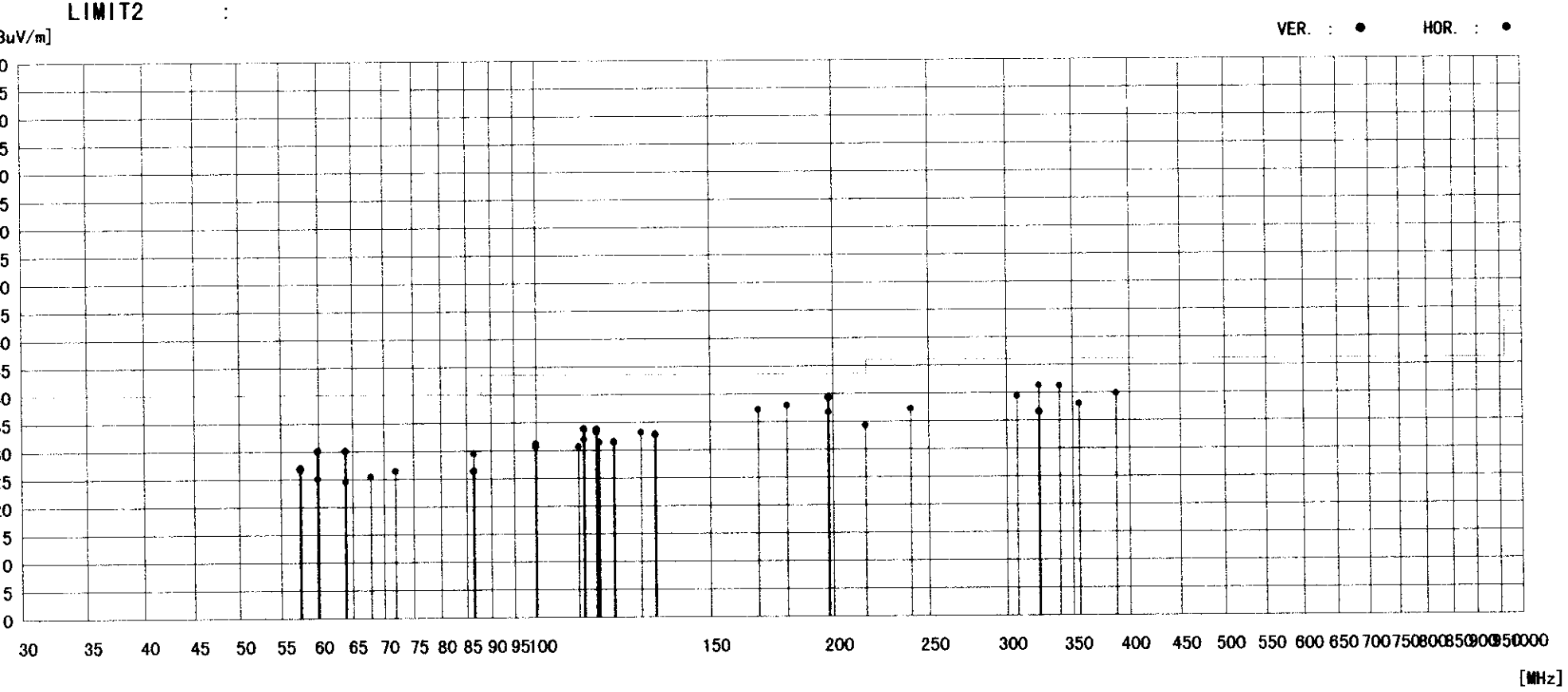
COMPANY : TEC CORPORATION
MODEL NAME : Facsimile
MODEL NO. : TF471
POWER : 120V 1.8A 60Hz
:
TEMP : 18℃ 86%
DESCRIPTION : SERIAL NO.97120006
:

REPORT NO. : 98051083
STANDARD : FCC Part 15
CLASS : B
DISTANCE : 3m
TEST MODE : PC SCAN MODE
ENGINEER : E.OKUYAMA

LIMIT1 : FCC Part15 Subpart.B Class B (3m)
LIMIT2 :

	FREQUENCY	METER READING VER.	HOR.	FACTOR	FIELD STRENGTH VER.	HOR.	LIMITS	MARGIN VER.	MARGIN HOR.	MEMO
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	
1	57.600	43.5	43.2	-16.6	26.9	26.6	40.0	13.1	13.4	
2	59.900	47.2	42.2	-17.2	30.0	25.0	40.0	10.0	15.0	
3	63.900	47.6	42.1	-17.6	30.0	24.5	40.0	10.0	15.5	
4	67.900		43.4	-18.0		25.4	40.0		14.6	
5	71.900		44.6	-18.2		26.4	40.0		13.6	
6	86.400	43.2	46.3	-16.9	26.3	29.4	40.0	13.7	10.6	
7	99.850	44.1	44.6	-13.4	30.7	31.2	43.5	12.8	12.3	
8	110.400		42.6	-12.0		30.6	43.5		12.9	
9	111.800	45.6	43.7	-11.8	33.8	31.9	43.5	9.7	11.6	
10	115.200	45.1	44.6	-11.4	33.7	33.2	43.5	9.8	10.3	
11	115.800		42.7	-11.3		31.4	43.5		12.1	
12	119.800	42.3		-10.8	31.5		43.5	12.0		
13	127.800		43.3	-10.2		33.1	43.5		10.4	
14	131.950	42.6		-9.8	32.8		43.5	10.7		
15	167.750		44.1	-7.0		37.1	43.5		6.4	
16	179.700		44.2	-6.3		37.9	43.5		5.6	
17	197.950	44.7	42.1	-5.5	39.2	36.6	43.5	4.3	6.9	
18	215.650		39.4	-5.2		34.2	43.5		9.3	
19	239.600		42.2	-5.0		37.2	46.0		8.8	
20	307.500		44.1	-4.8		39.3	46.0		6.7	
21	323.500	41.1	45.8	-4.6	36.5	41.2	46.0	9.5	4.8	
22	339.450		45.5	-4.3		41.2	46.0		4.8	
23	355.450		42.1	-4.1		38.0	46.0		8.0	
24	387.400		43.5	-3.7		39.8	46.0		6.2	

COMPANY	: TEC CORPORATION	REPORT NO.	: 98051083
MODEL NAME	: Facsimile	STANDARD	: FCC Part 15
MODEL NO.	: TF471	CLASS	: B
POWER	: 120V 1.8A 60Hz	DISTANCE	: 3m
	:	TEST MODE	: PC SCAN MODE
TEMP	: 18℃ 86%	ENGINEER	: E.OKUYAMA
DESCRIPTION	: SERIAL NO.97120006		
	:		
LIMIT1	: FCC Part15 Subpart.B Class B (3m)		
LIMIT2	:		



CONDUCTED POWER LINE

FCC Part 15 Subpart B Class B:1996

List of measurement equipment

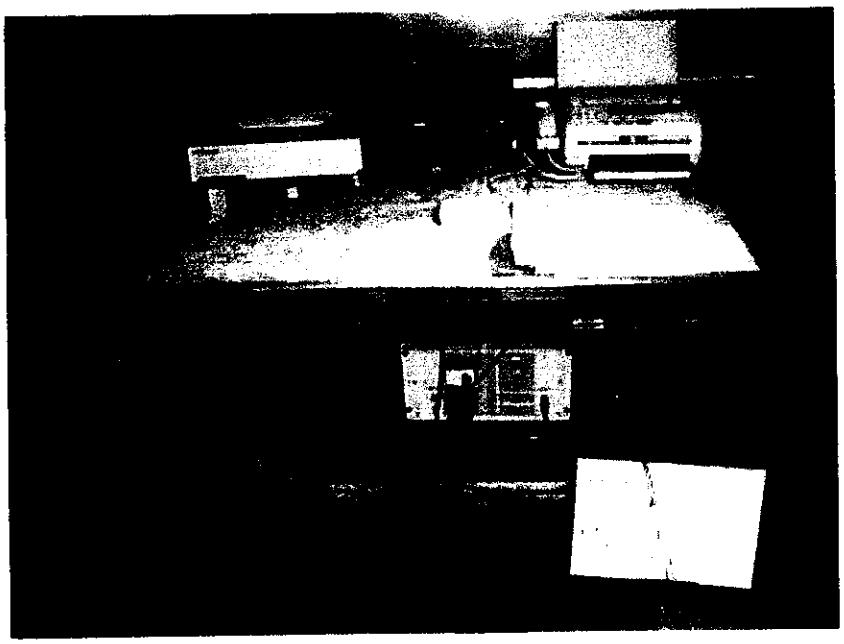
ITEM	MANUFACTURER	MODEL	Serial No.
TEST RECEIVER	ROHDE SCHWARZ	ESH2	892237/016
SPECTRUM ANALIZER	HEWLETT PACKARD	8567A	2841A 00577/ 2848A 17271
LISN	ROHDE SCHWARZ	ESH2-Z5	892602/006

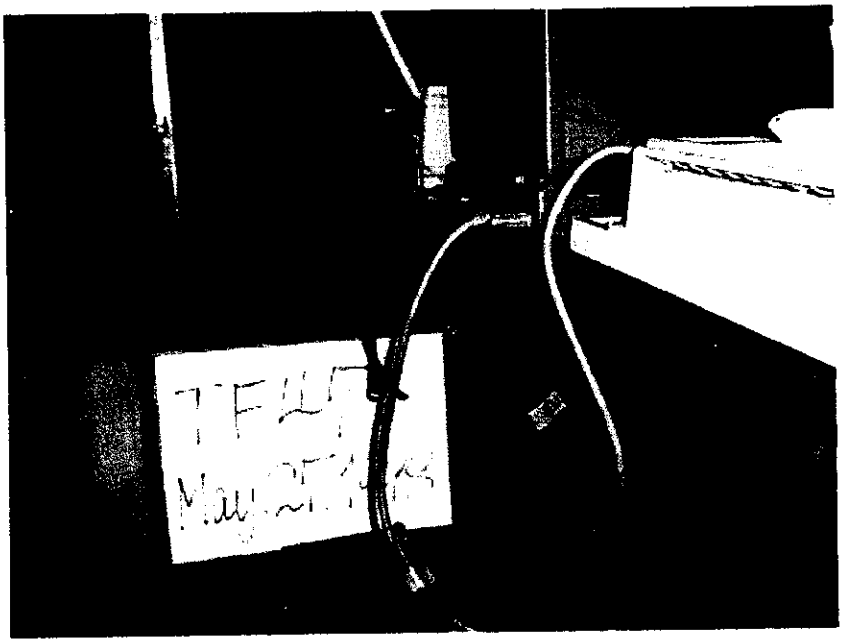
Test Plan

DATE: May. 27, 1998	Condition: 24 C 74%
The size of EUT	(347.5(W)× 146.5(H)× 397.5(D)mm) 7.0 kg
Representative operating conditions of the EUT	STANDBY MODE, COPY MODE, TRANSMITTING MODE, RECEIVING MODE, PC PRINT MODE, PC SCAN MODE
Disposition	Table Top, above the ground plane 0.8m
The type of test facility	Shield Room
Test frequency	450kHz-30MHz
The performance criteria which are acceptable	EUT Complies with Limits of FCC Part 15 Subpart B Class B:1996
Power Supply	A.C.120V / 1.8A

Conducted Emissions Test Setup

TYPE : TF471





Setup1 : 450kHz~30MHz FRONT&REAR

FCC Part 15 Subpart B Class B:1996

CONDUCTED POWER LINE TEST RESULTS

EMCJ

Report No. : 98051083

EMC Japan Corp.

Results of Conducted Power Line Measurements. : Quasi Peak

Measuring Method : FCC 15 Sub.B Class B:1996.

N / L1 : Measured Value

EUT : Facsimile
Model : TF471
Serial No. : 97120006

Test Mode : STANDBY MODE

Description : A.C.120V / 1.8A
Temp. : 24 C

*** Remarks ***

Frequency (MHz)	RFI Voltage (dBuV) N	RFI Voltage (dBuV) L1	Limit (dBuV)	Margin (dBuV)
0.450	15.9	15.9	18.0	32.1
0.832	10.0	40.1	18.0	7.9
1.039	38.7	38.8	18.0	9.2
2.167	33.6	34.0	18.0	11.9
12.920	31.1	30.6	18.0	16.9
20.097	38.4	38.6	18.0	9.1
30.000	23.4	25.2	18.0	22.8

Conclusion : EUT Complies With Limits
of FCC 15 Sub.B Class B:1996.

EMCJ
EMC Japan Corp.

Results of Conducted Power Line Measurements.

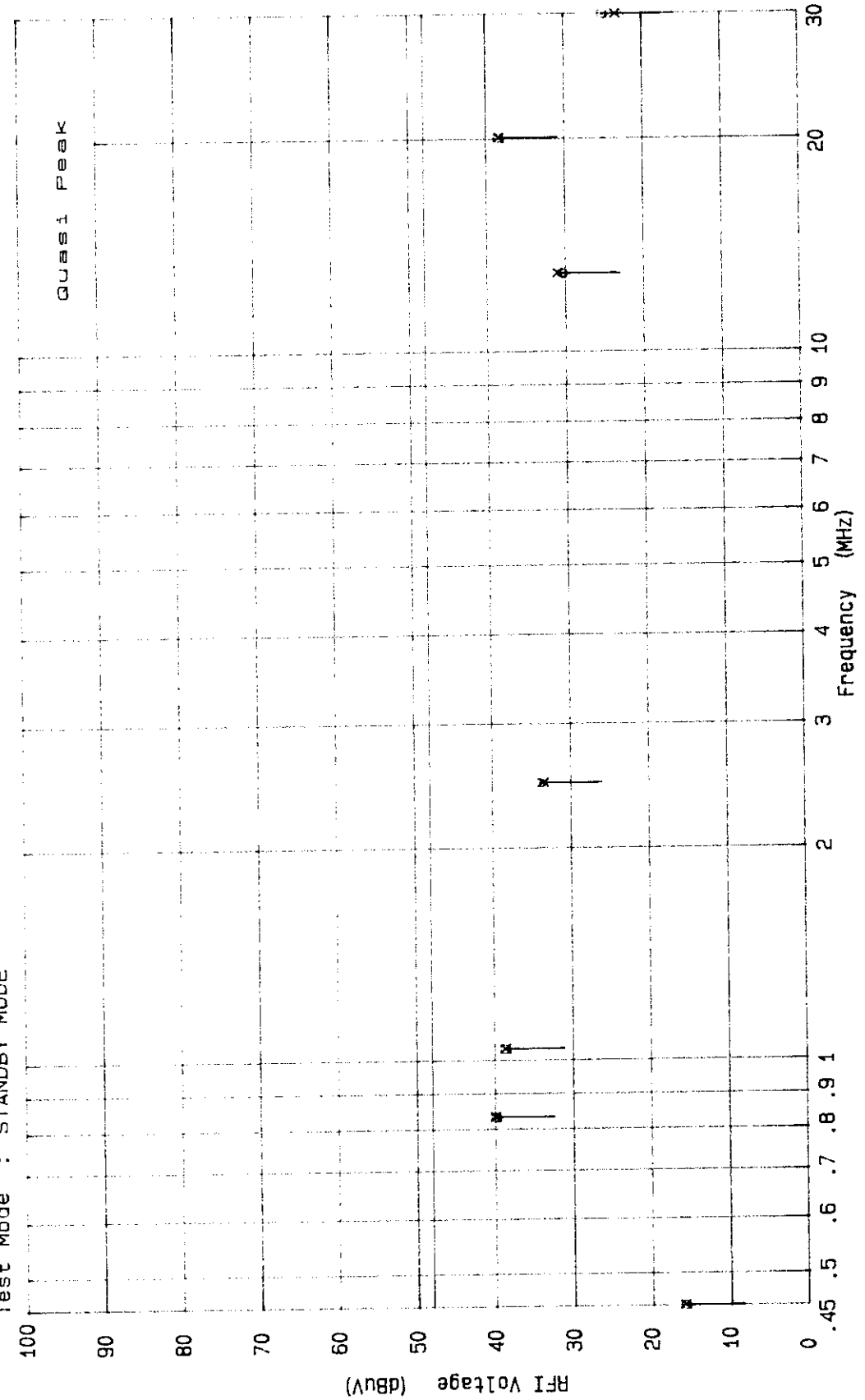
Report No. : 98051083

Measuring Meathod : FCC 15 Sub.B Class B: 1996.

EUT : Facsimile
Model : TF471
Serial No. : 97120006
Test Mode : STANDBY MODE

—— : Limit Line
x : Measured Value (N)
◡ : Measured Value (L1)

Quasi Peak



EMCJ

Report No. : 98051083

EMC Japan Corp.

Results of Conducted Power Line Measurements. : Quasi Peak

Measuring Method : FCC 15 Sub.B Class B:1996.

N / L1 : Measured Value

EUT : Facsimile
Model : TF471
Serial No. : 97120006

Test Mode : COPY MODE

Description : A.C.120V / 1.8A
Temp. : 24 C

*** Remarks ***

Frequency (MHz)	RFI Voltage (dBuV)		Limit (dBuV)	Margin (dBuV)
	N	L1		
0.150	30.1	31.2	18.0	16.8
0.531	41.1	41.5	18.0	5.5
1.056	40.1	40.6	18.0	5.4
1.242	39.9	40.3	18.0	5.7
12.749	34.1	33.6	18.0	13.9
16.663	38.9	38.5	18.0	9.1
30.000	24.1	26.2	18.0	21.8

Conclusion : EUT Complies With Limits
of FCC 15 Sub.B Class B:1996.

EMCJ

EMC Japan Corp.

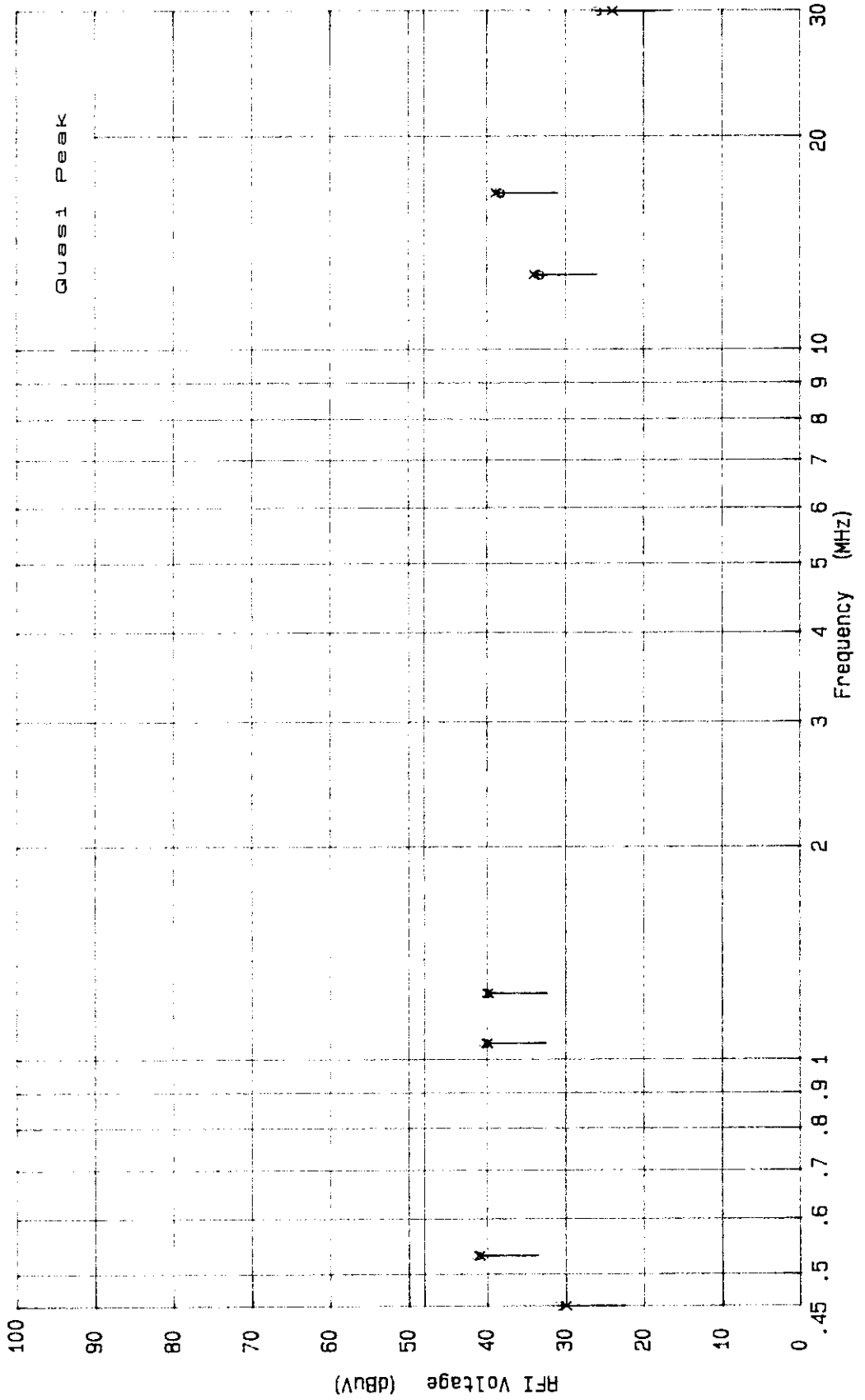
Results of Conducted Power Line Measurements.

Measuring Meathod : FCC 15 Sub.B Class B: 1996.

Report No. : 98051083

EUT : Facsimile
Model : TF471
Serial No. : 97120006
Test Mode : COPY MODE

— : Limit Line
x : Measured Value (N)
. : Measured Value (L1)



EMCJ

Report No. : 9805J0883

EMC Japan Corp.

Results of Conducted Power Line Measurements. : Quasi Peak

Measuring Method : FCC 15 Sub.B Class B:1996.

N / LI : Measured Value

EUT : Facsimile
Model : TF471
Serial No. : 97120006

Test Mode : TRANSMITTING MODE

Description : A.C.120V / 1.8A
Temp. : 21 C

*** Remarks ***

Frequency (MHz)	RFI Voltage (dBuV)		Limit (dBuV)	Margin (dBuV)
	N	LI		
0.450	28.4	29.1	48.0	18.9
0.178	40.1	40.1	48.0	7.9
0.534	38.3	38.4	48.0	9.6
1.240	39.8	40.0	48.0	8.0
12.783	31.6	31.7	48.0	16.3
17.380	37.2	37.2	48.0	10.8
20.861	38.6	39.1	48.0	8.9
30.000	24.4	26.2	48.0	21.8

Conclusion : EUT Complies With Limits
of FCC 15 Sub.B Class B:1996.

EMCJ
EMC Japan Corp.

Results of Conducted Power Line Measurements.

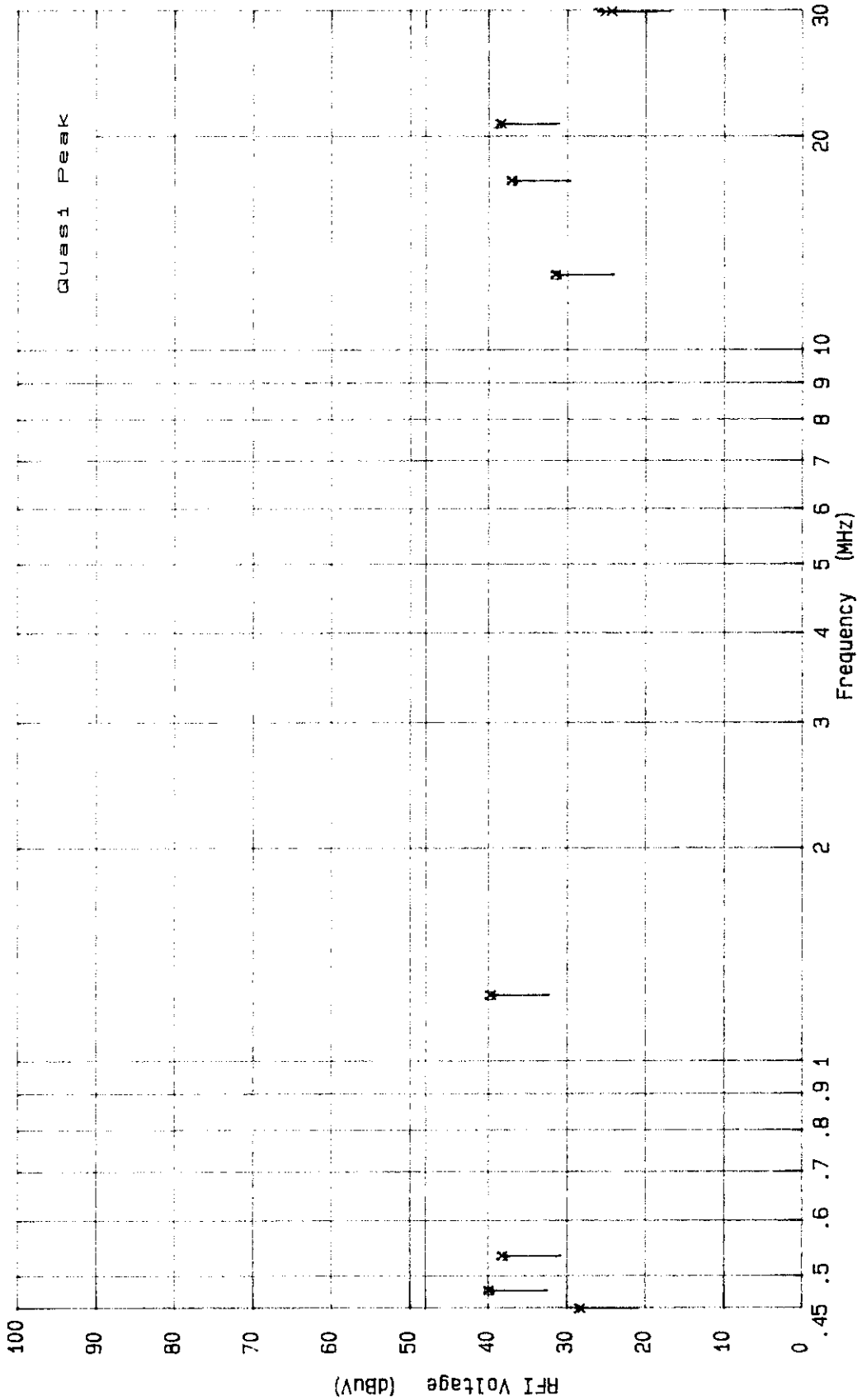
Measuring Method : FCC 15 Sub.B Class B: 1996.

Report No. : 98051083

EUT : Facsimile
Model : TF471
Serial No. : 97120006
Test Mode : TRANSMITTING MODE

— : Limit Line
x : Measured Value (N)
○ : Measured Value (L1)

Quasi Peak



EMCJ

Report No. 980511[illegible]

EMC Japan Corp.

Results of Conducted Power Line Measurements. : Quasi Peak

Measuring Method : FCC 15 Sub.B Class B:1996.

N / L1 : Measured Value

EUT : Facsimile
Model : TF171
Serial No. : 97120006

Test Mode : RECEIVING MODE

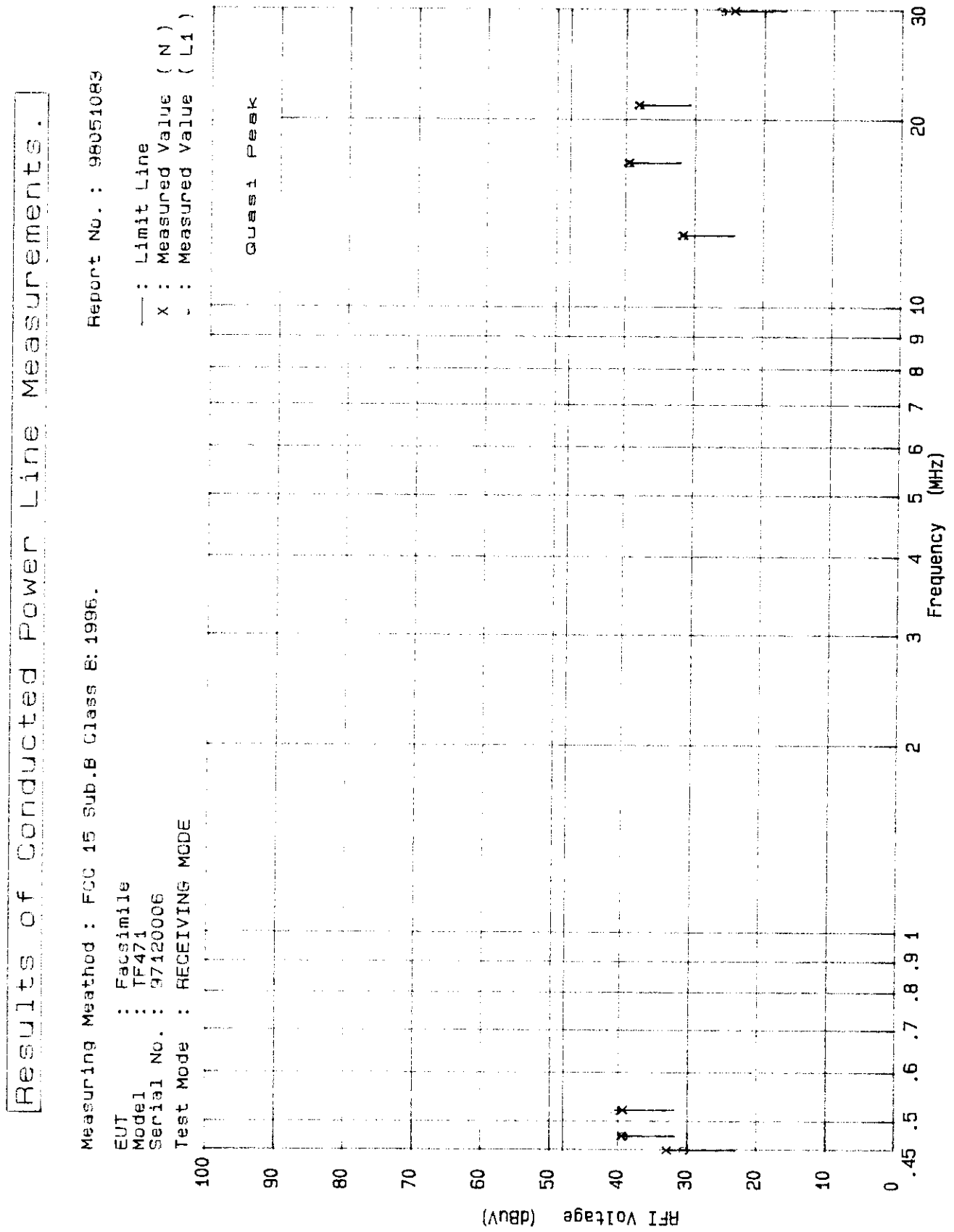
Description : A.C.120V / 1.8A
Temp. : 24 C

*** Remarks ***

Frequency (MHz)	RFI Voltage (dBuV) N	L1	Limit (dBuV)	Margin (dB)
0.450	33.1	30.5	48.0	14.9
0.475	39.6	39.3	48.0	8.4
0.522	39.4	40.6	48.0	7.4
13.108	31.7	31.9	48.0	16.1
17.093	39.6	39.8	48.0	8.2
21.170	38.2	38.3	48.0	9.7
30.000	24.4	26.4	48.0	21.6

Conclusion : EUT Complies With Limits
of FCC 15 Sub.B Class B:1996.

EMCJ
EMC Japan Corp.



EMCJ

Report No. 98051083

EMC Japan Corp.

Results of Conducted Power Line Measurements. : Quasi Peak

Measuring Method : FCC 15 Sub.B Class B:1996.

N / L1 : Measured Value

EUT : Facsimile
Model : TF171
Serial No. : 97120006

Test Mode : PC PRINT MODE

Description : A.C.120V / 1.8A
Temp. : 24 C

*** Remarks ***

Frequency (MHz)	RFI Voltage (dBuV)		Limit (dBuV)	Margin (dB)
	N	L1		
0.450	27.1	27.3	18.0	29.7
0.480	38.8	39.2	18.0	8.8
0.533	38.7	39.1	18.0	8.9
2.668	34.4	34.6	18.0	11.4
12.617	33.7	33.2	18.0	11.3
17.164	40.7	40.2	18.0	7.3
30.000	22.5	24.2	18.0	2.5

Conclusion : EUT Complies With Limits
of FCC 15 Sub.B Class B:1996.

EMCJ
EMC Japan Corp.

Results of Conducted Power Line Measurements.

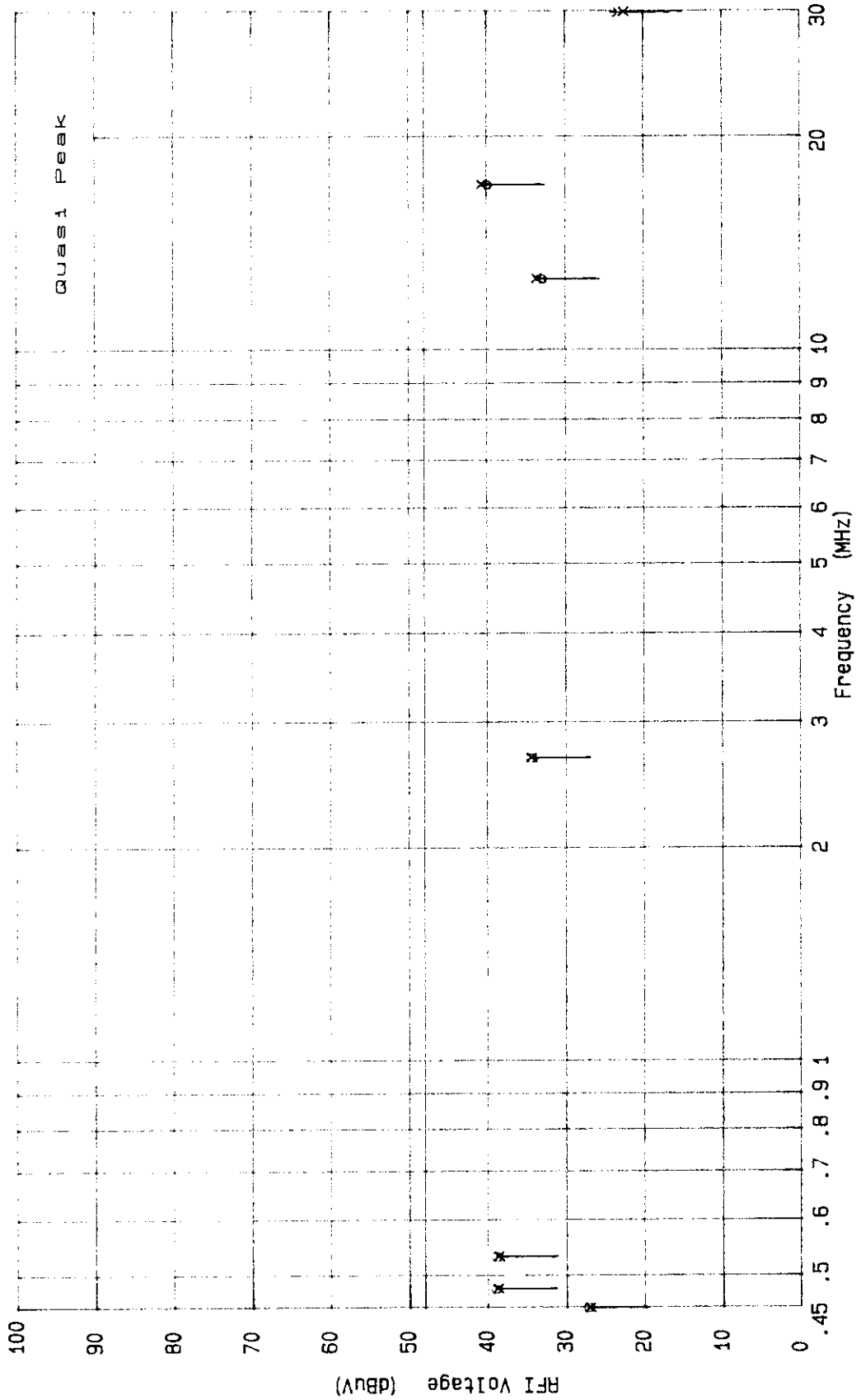
Measuring Meathod : FCC 15 Sub.B Class B: 1996.

EUT : Facsimile
Model : TF471
Serial No. : 97120006
Test Mode : PC PRINT MODE

Report No. : 98051083

— : Limit Line
x : Measured Value (N)
○ : Measured Value (L1)

Quasi Peak



EMCJ

Report No. : 98051033

EMC Japan Corp.

Results of Conducted Power Line Measurements. : Quasi Peak

Measuring Method : FCC 15 Sub.B Class B:1996.

N / L1 : Measured Value

EUT : Facsimile
Model : TF471
Serial No. : 97120006

Test Mode : PC SCAN MODE

Description : A.C.120V / 1.8A
Temp. : 24 C

*** Remarks ***

Frequency (MHz)	RFI Voltage (dBuV)		Limit (dBuV)	Margin (dB)
	N	L1		
0.450	15.7	15.7	48.0	32.3
0.496	38.6	39.4	48.0	8.6
0.753	36.1	36.2	48.0	11.8
1.119	29.9	30.1	48.0	17.9
12.067	30.1	29.8	48.0	17.9
16.788	36.5	36.1	48.0	11.5
30.000	21.6	26.1	48.0	21.9

Conclusion : EUT Complies With Limits
of FCC 15 Sub.B Class B:1996.

EMCJ
EMC Japan Corp.

Results of Conducted Power Line Measurements.

Measuring Meathod : FCC 15 Sub.B Class B: 1996.

Report No. : 98051083

EUT : Facsimile
Model : TF471
Serial No. : 97120006
Test Mode : PC SCAN MODE

— : Limit Line
x : Measured Value (N)
○ : Measured Value (L1)

Quasi Peak