

TOKIN

Tokin EMC Engineering Co., Ltd.

Head Office : 398, Shiboguchi, Takatsu-ku, Kawasaki-city, Kanagawa 213-0023, Japan

Osaka Test Center : 49, Miyenowaki, Asa, Sakai, Sando-city, Hyogo 669-1405, Japan

Phone +81-795-69-1230 Fax +81-793-69-0079

NVLAP

NVLAP Lab Code:2002184

FCC TEST REPORT CERTIFICATION OF DIGITAL DEVICE

for

Matsushita Electric Industrial Co.,Ltd.

1006,Kadoma,Osaka 571-8501, Japan

Equipment Under Test: Notebook Computer
(model name : CF-28)

FCC ID:

Category: Part 15 Sub.part B Class B Digital Device

Tokin Report No.: S1R011181

Date of Issue: January 19, 2001


Kanau Shioyama 1/25/2001
Deputy Manager, Osaka Testing Lab.
Tokin EMC Engineering Co.,Ltd.

-ATTENTION-

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This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

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1 DESCRIPTION OF DEVICE

A) Kind of Equipment : Notebook Computer

B) FCC ID :

C) Model Name : CF-28

D) Serial No. : proto type

E) Type of Sample Tested : Pre-production

F) High Frequency Used : CPU (Pentium III -600MHz)
External..... 100MHz
Internal..... 600MHz
LCD Clock..... 65MHz
PLL Clock Generator..... 14MHz

G) Rating Power Supply : 1 phase AC 100 ~ 240V, 1.5 ~ 0.7A, 50/60Hz

H) Tested Power Supply : 1 phase AC 120V, 60Hz

I) Date of Manufacture : January, 2001

J) Manufacturer : Matsushita Electric Industrial Co., Ltd.
1006, Kadoma, Osaka 571-8501, Japan

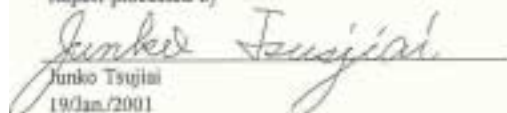
K) Description of Operating : Internal FDD

L) Date of Sample Received : January 15, 2001

M) Date of Measurement : January 15, 2001

N) Tested Engineer : Motonobu Nishimura

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Junko Tsujiai
19/Jan./2001


Motonobu Nishimura, Engineer

2 TEST FACILITY

Tokin EMC Engineering Co.,Ltd.
Osaka Testing Laboratory, Open Field Test Site No.1 & Shielded Room No.1

Address ; 49,Miyanowaki,Sakai-aza,Sanda-city,Hyogo 669-1405, Japan
+81-795-69-1290 (Tel) +81-795-69-0079 (Fax)

Quality control in the testing laboratory is implemented as per ISO Guide 25/EN45001 which is the "General requirements for the computer of calibration and testing laboratory".
This laboratory is accredited by DAR for EMC under registration number TT1-P-G147/97-30, NVLAP for NVLAP Lab. Code : 200218-0, and NATA for NATA accreditation number 12045.
So that we subcontracts with them.

3 SUMMARY OF RESULTS

3.1 Electromagnetic Emission

RFI Voltage Measurement..... PASS
RFI Field Strength Measurement..... PASS

Although the measured emissions indicate that the EUT complies with the required limits, some measurements are close to these limits. When the uncertainty of measurement is considered, there is some possibility that the EUT may not be compliant.

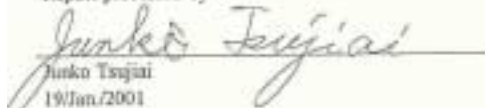
Test results are traceable to JQA, MKK and NIST.

3.2 Modifications to the EUT : N/A

3.3 Justification (Notebook Computer CPU)

This test data supports CPU type 600MHz of the notebook PC.

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4 TESTED SYSTEM DETAILS

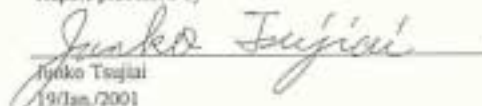
4.1 EUT Peripherals and Others:

Description	Model Name	Serial No.	Manufacturer	FCC ID
CRT Display	C1395	Kh3410012	Panasonic	ACJ928KMX-F408
Printer	KX-P2130	5IMCJB01442	Panasonic	ACJ5Z6KX-P2130
(Terminal) Notebook Computer	CF-1000	2KKSA01030	Panasonic	ACJ9TG25-3580
Mouse	PS/2 COMPATIBLE MOUSE	2788187	MITSUMI ELECTRONICS	EW4ECM-S3102
External Keyboard	DFSX1B04ZASG	L6010935	Panasonic	C9SKB8720
USB Keyboard	N860-8760-T902	M1000027	Fujitsu takamizawa	proto type
Microphone	none	none	Panasonic	N/A
Stereo Headphone	RPHV335	none	Panasonic	N/A
Port Replicator	CF-VEB271	proto type	Panasonic	N/A
AC Adapter	CF-AA1639A	981103485A	Panasonic	N/A
IC Card	BN-040AA	none	Panasonic	N/A
IC Card	GV CARD	none	Panasonic	N/A
Serial Mouse	25-1040C	none	Tandy	EW476F25-1040C
Modem	TLE101- II	212448	LSI JAPAN	N/A

4.2 Type of Used Cable:

Description	Length	Ferrite Core	Type of Shield	Connectors
CRT Cable	1.7m	N/A	Single Braided	Metal Cover
Parallel Cable	1.8m	N/A	Single Braided	Resinous Cover
Serial Cable	1.5m	N/A	Single Braided	Resinous Cover
Mouse Cable	1.8m	N/A	Single Braided	Resinous Cover
External Keyboard Cable	1.5m	N/A	Single Braided	Resinous Cover
USB Keyboard Cable	1.5m	N/A	Single Braided	Resinous Cover
Microphone Cable	1.5m	N/A	Non Shielded	Resinous Cover
Stereo Headphone Cable	1.5m	N/A	Non Shielded	Resinous Cover
AC Adapter Cable (AC)	1.8m	N/A	Non Shielded	Resinous Cover
AC Adapter Cable (DC)	1.9m	1turn	Non Shielded	Resinous Cover
Serial Mouse Cable	1.4m	N/A	Single Braided	Resinous Cover
Modem Cable	10m	N/A	Non Shielded	Resinous Cover

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4.3 Option:

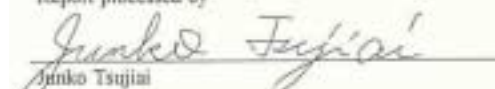
- | | |
|-------------------------|------------|
| • Port Replicator | CF-VEB272A |
| • CD-ROM Drive Pack | CF-VCD271 |
| • Super Disk Drive Pack | CF-VFS271 |
| • External FDD Cable | CF-VCF271 |
| • AC Adapter | CF-AA1639A |
| • Battery Pack | CF-VZSU18 |

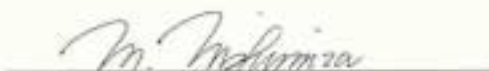
4.4 Operation Mode:

Internal FDD

- All "H" simultaneous display (CRT&LCD).
- All "H" print-out.
- Communication speed 9600 bps.
- FDD/HDD read and write.

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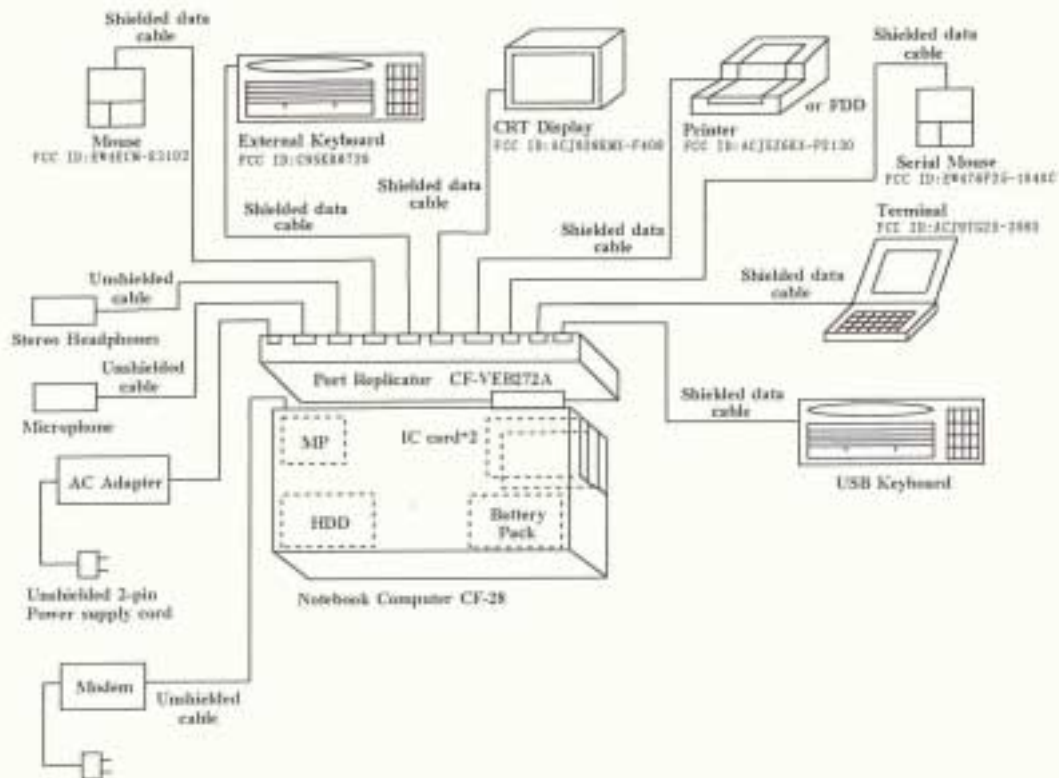


Figure 4-1 System Configuration Diagram

5 TECHNICAL COUNTERMEASURE

1. Using magnesium as main cabinet for shield.
2. Using several kinds of EMI part (capacitor, inductor, etc) in the printed circuit board.

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 19/Jan/2001

M. Nishimura
 Motonobu Nishimura, Engineer

6 TEST RESULTS

6.1 RFI Voltage Measurement

6.1.1 Measurement Instrumentation Used

(model/serial no./manufacturer/Tokin control no./last calibration/next calibration)

Field strength meter.....(ESH510/892814/020/Rohde&Schwarz/RE038/26, Apr.'00/Apr.'01)

L.I.S.N.(KNW-407/8-655-10/Kyoritsu/LI023/23, Feb.'00/Feb.'01)

Spectrum analyzer.....(R3131/81781185/Advantest/SP046/21, Aug.'00/Aug.'01)

Shielded room.....(Osaka No.1-S/-----/Tokin/SA022/-----/-----)

6.1.2 Measurement Procedure

The power line conducted interference measurements were performed in a shielded enclosure No.1 with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded enclosure wall.

The EUT was plugged into the LISN and the frequency range of interest scanned.

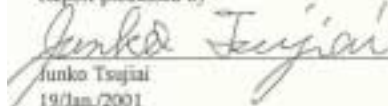
Reported are maximized emission levels.

6.1.3 Deviations from the specifications : N/A

6.1.4 Measurement Uncertainty

Measurement uncertainty of RFI Voltage Measurement test was estimated at $\pm 0.6\text{dB}$.

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6.1.5 Test Data

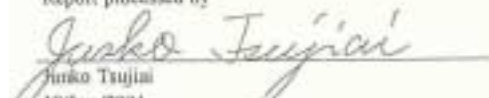
Table 6.1-1 RFI Voltage Measurement Results

Operating mode: Internal FDD
 Test procedure: ANSI C63.4-1992

Date of measurement: January 25, 2001
 Temperature: 18 degree C
 Humidity: 50 %

	Frequency (MHz)	Level (dBuV)	Total Factor (dB)	Result (dBuV)	Result (uV)	Limit (uV)	Margin (dB)
L1-E	0.450	28.0	0.2	28.2	25.70	48.0	19.8
	0.624	28.0	0.2	28.2	25.70	48.0	19.8
	0.830	25.0	0.2	25.2	18.20	48.0	22.8
	3.224	30.0	0.2	30.2	32.36	48.0	17.8
	4.060	33.0	0.2	33.2	45.71	48.0	14.8
	4.271	35.0	0.2	35.2	57.54	48.0	12.8
	4.436	34.0	0.2	34.2	51.29	48.0	13.8
N-E	0.450	28.0	0.2	28.2	25.70	48.0	19.8
	0.624	28.0	0.2	28.2	25.70	48.0	19.8
	0.830	29.0	0.2	29.2	57.54	48.0	18.8
	3.224	30.0	0.2	30.2	86.10	48.0	17.8
	4.060	33.0	0.2	33.2	45.71	48.0	14.8
	4.271	35.5	0.2	35.7	60.95	48.0	12.3
	4.436	33.0	0.3	33.3	46.24	48.0	14.8

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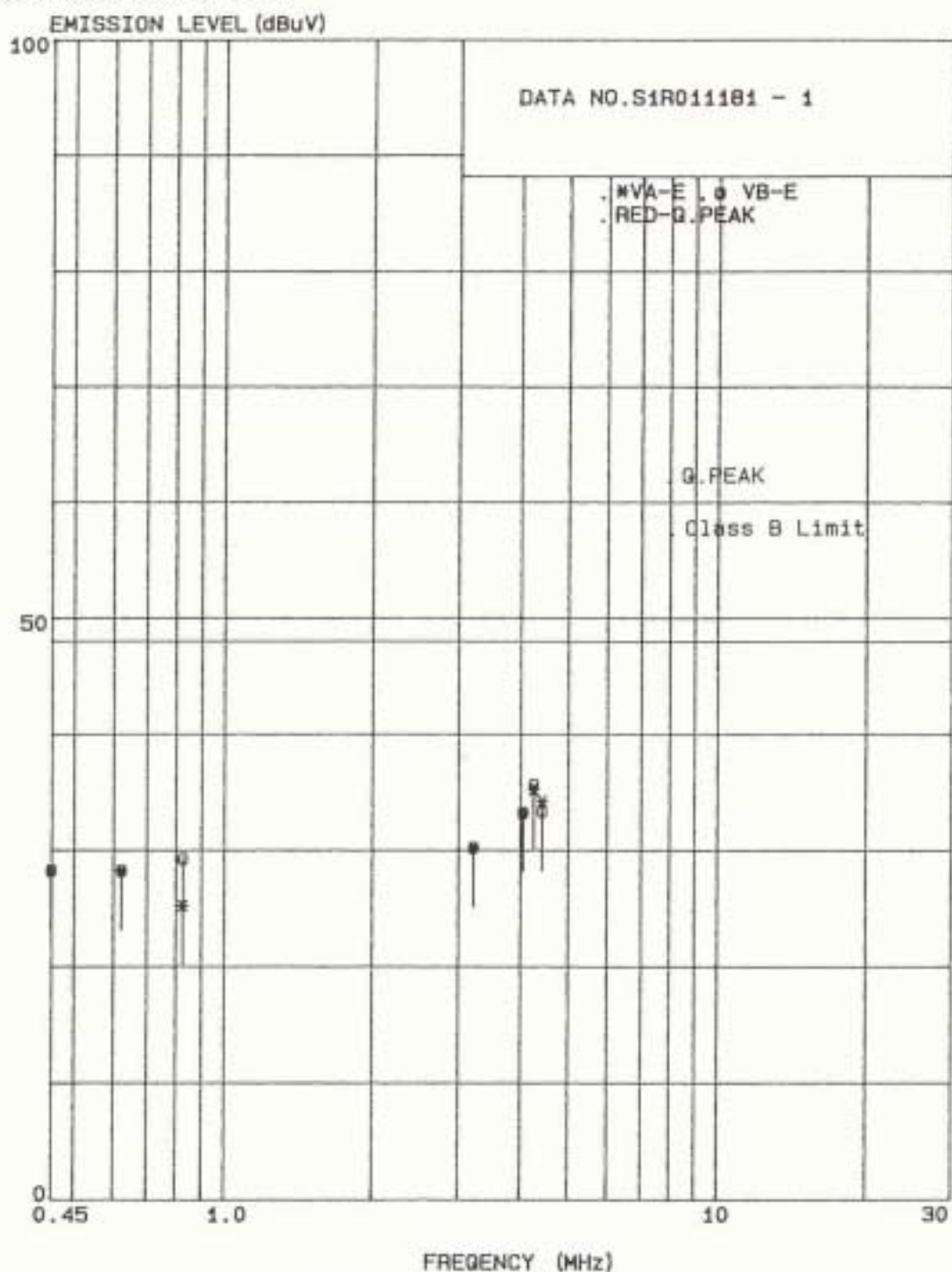


Figure 6.1-1 RFI Voltage Measurement Results

6.2 RFI Field Strength Measurement

6.2.1 Measurement Instrumentation Used

(model/serial no./manufacturer/Tokin control no./last calibration/next calibration)

Field strength meter..... (FCVU1534/134/Schwarzbeck/RE050/21, Aug.'00/Aug.'01)
Biconical antenna..... (KBA-523/0-188-5/Kyoritsu/TB014/13, Aug.'00/Aug.'01)
Logperiodic antenna..... (3146/1519/EMCO/TL013/13, Aug.'00/Aug.'01)
Preamplifier..... (8447D/2727A05312/Hewlett Packard/AM017/12, Aug.'00/Aug.'01)
Spectrum analyzer..... (R3261A/11720028/Advantest/SP009/22, Aug.'00/Aug.'01)
Double ridged guide horn antenna..... (3115/9605-4773/EMCO/AN027/30, Sep.'00/Sep.'01)
Spectrum analyzer..... (8563E/3450A03109/Hewlett Packard/SP037/04, Sep.'00/Sep.'01)
Preamplifier..... (8449B/3008A00818/Hewlett Packard/AM033/12, Jul.'00/Jul.'01)
Open field test site..... (Osaka No.1/-----/Tokin/SA008/12, Aug.'00/Aug.'01)

6.2.2 Measurement Procedure

Final test was performed at the open field test site No.1.

The EUT was placed in a 0.8m high table along with the peripherals. The turn table was separated from the antenna distance 3 meters. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for maximum.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities.

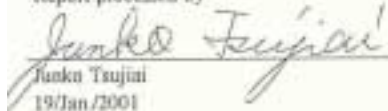
Reported are maximized emission levels.

6.2.3 Deviations from the specifications : N/A

6.2.4 Measurement Uncertainty

Measurement uncertainty of RFI Field Strength Measurement test was estimated at $\pm 2.8\text{dB}$.

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Motoooba Nishimura, Engineer

6.2.5 Test Data

Table 6.2-1a RFI Field Strength Measurement Results (30MHz ~ 1GHz)

Operating mode: Internal FDD Date of measurement: January 15, 2001
 Test procedure: ANSI C63.4-1992 Temperature: 15 degree C
 Humidity: 58 %

Frequency (MHz)	Level		Ant. Factor (dB/m)	Cable Loss (dB)	Amp. Gain (dB)	Result		Result		3 Meter Limit (uV/m)	Margin	
	Ver.	Hor.				Ver.	Hor.	Ver.	Hor.		Ver.	Hor.
(dBuV)						(dBuV/m)		(uV/m)			(dB)	
37.95	42.0	37.0	13.1	2.0	-27.2	29.9	24.9	31.26	19.05	40.0	10.1	15.1
42.75	42.0	36.0	13.0	2.0	-27.0	30.0	24.0	31.62	25.41	40.0	10.0	16.0
48.31	42.0	41.0	12.5	2.2	-27.0	29.6	28.6	30.20	19.72	40.0	10.4	11.4
53.68	45.0	40.0	11.8	2.3	-26.9	32.2	27.2	40.74	21.63	40.0	7.8	12.8
65.13	45.0	49.0	9.0	2.6	-26.9	29.7	33.7	30.55	23.44	40.0	10.8	6.3
72.33	42.0	-	8.1	2.7	-26.9	25.8	-	19.50	45.19	40.0	14.2	-
73.15	-	46.0	8.0	2.7	-27.0	-	29.7	-	30.20	40.0	-	10.3
113.81	-	44.0	10.4	3.6	-26.9	-	31.1	-	14.29	43.5	-	12.4
138.18	-	44.0	12.2	4.2	-26.7	-	30.7	-	41.69	46.0	-	12.8
322.13	35.0	36.0	16.6	6.7	-26.1	32.2	33.2	40.74	41.69	43.5	13.8	12.8
343.61	39.0	34.0	14.6	7.1	-26.1	34.6	29.6	53.70	56.89	46.0	11.4	16.4
386.58	42.0	33.0	14.0	7.7	-26.5	37.2	28.2	72.44	-	46.0	8.8	17.8
497.45	35.0	34.0	19.7	9.0	-27.2	36.5	35.5	66.83	46.24	46.0	9.5	10.5
515.45	-	31.0	19.9	9.2	-27.1	-	33.0	-	33.50	46.0	-	13.0
542.30	30.0	-	20.1	9.6	-27.2	32.5	-	42.17	-	46.0	13.5	-
569.15	3.0	28.0	20.2	10.1	-27.4	35.9	30.9	62.37	33.50	46.0	10.1	15.1
579.88	31.0	-	20.3	10.0	-27.2	34.1	-	50.70	-	46.0	11.9	-
595.98	31.0	28.0	20.2	10.1	-27.4	35.9	30.9	62.37	34.67	46.0	10.1	15.1
624.11	31.0	-	19.4	10.5	-27.3	33.6	-	47.86	-	46.0	12.4	-
720.10	30.0	27.0	20.9	11.9	-27.3	35.5	32.5	59.57	35.89	46.0	10.5	13.5

Class B limit

Radiated Emission-3 meter distance

Frequency (MHz)	dBuV/m	uV/m
30-88	40.0	100
88-216	43.5	150
216-960	46.0	200
>960	54.0	500

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 Motonobu Nishimura, Engineer

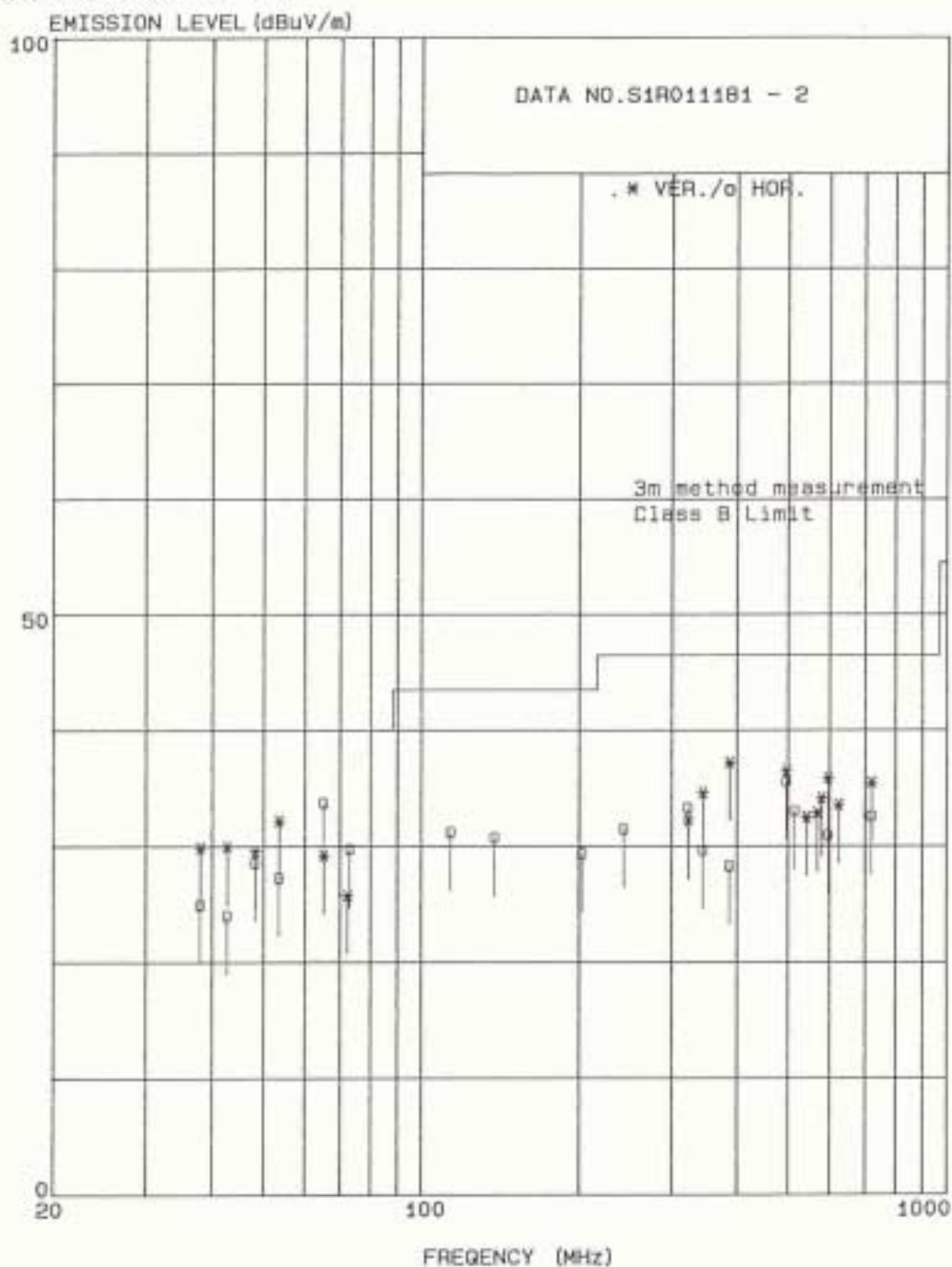


Figure 6.2-1a: RFI Field Strength Measurement Results at 2m/3m.

Table 6.2-2a RFI Field Strength Measurement Results (1GHz ~ 5GHz)

Operating mode: Internal FDD

Date of measurement: January 15, 2001

Test procedure: ANSI C63.4-1992

Temperature: 17 degree C

Humidity: 61 %

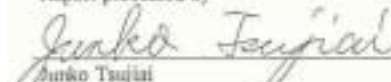
Frequency (GHz)	Level		Ant. Factor (dB/m)	Cable Loss (dB)	Amp. Gain (dB)	Result		Result		3 Meter Limit (uV/m)	Margin	
	Ver.	Hor.				Ver.	Hor.	Ver.	Hor.		Ver.	Hor.
	(dBuV)					(dBuV/m)		(uV/m)			(dB)	
1008.15	41.0	41.0	25.0	2.8	-37.0	31.9	31.9	39.36	39.36	54.0	22.1	22.1
1056.16	44.0	42.0	25.2	2.9	-36.9	35.3	33.3	58.21	46.24	54.0	18.7	20.7
1095.32	46.0	43.0	25.4	3.0	-36.8	37.6	34.6	75.86	53.70	54.0	16.4	19.4
1121.20	42.0	-	25.5	3.0	-36.7	33.8	-	48.98	-	54.0	20.2	-
1152.19	45.0	38.0	25.6	3.1	-36.7	37.0	30.0	70.79	31.62	54.0	17.0	24.0
1159.77	47.0	42.0	25.6	3.1	-36.6	39.1	34.1	90.16	50.70	54.0	14.9	19.9
1185.43	46.0	38.0	25.7	3.1	-36.6	38.3	30.3	82.22	32.73	54.0	15.7	23.7
1224.20	43.0	39.0	25.8	3.2	-36.5	35.5	31.5	59.57	37.58	54.0	18.5	22.5
1288.62	42.0	40.0	26.1	3.3	-36.4	35.0	33.0	56.23	44.67	54.0	19.0	21.0
1675.20	39.0	41.0	27.5	3.7	-36.0	34.3	36.3	51.88	65.31	54.0	19.7	17.7
2370.77	44.0	41.0	30.0	4.3	-35.6	42.7	39.7	136.46	96.61	54.0	11.3	14.3

Class B limit

Radiated Emission-3 meter distance

Frequency (GHz)	dBuV/m	uV/m
1-5	54.0	500

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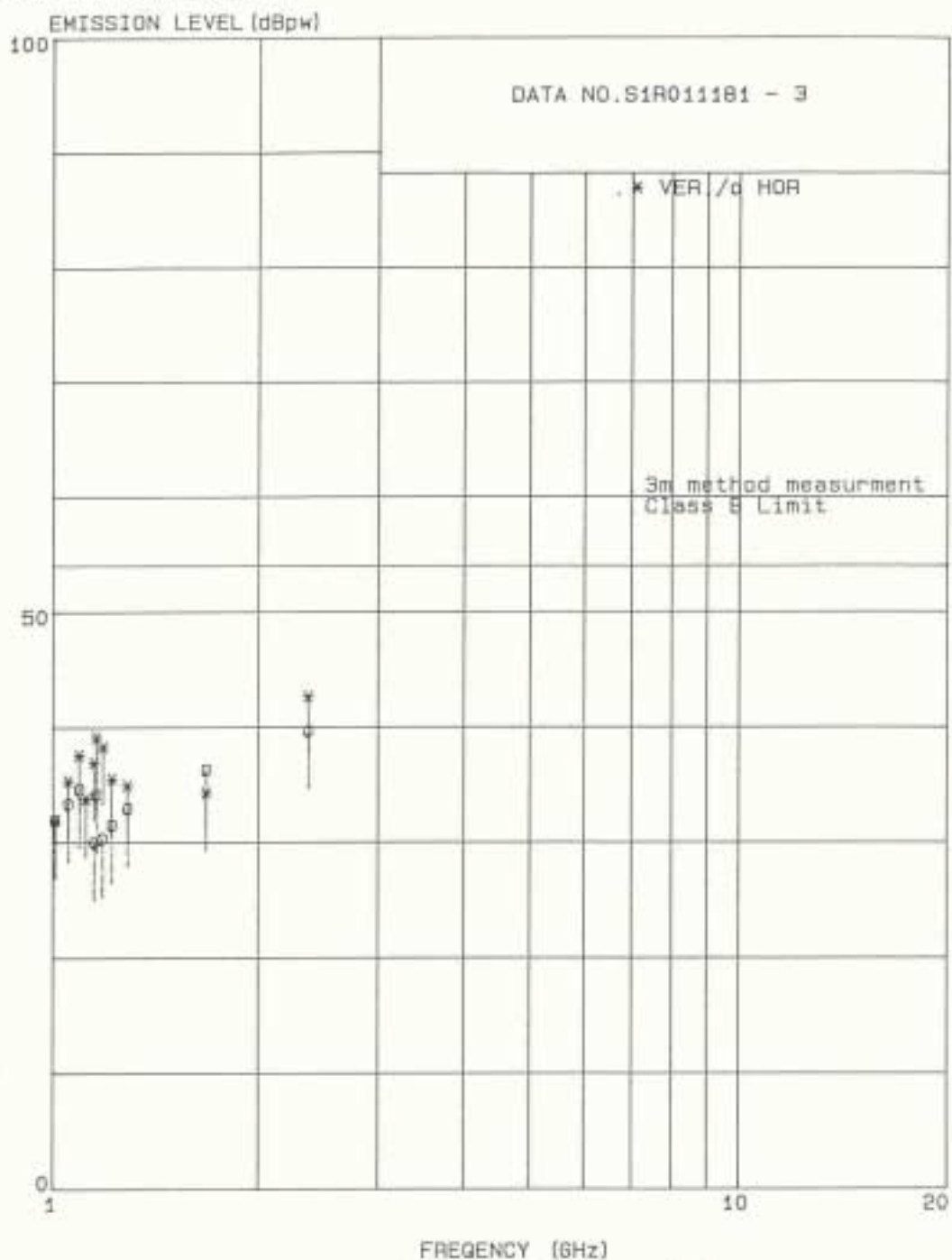


Figure 6.2-3a RFI Field Strength Measurement Results

Table 6.2-2b RFI Field Strength Measurement Results (30MHz ~ 1GHz)

Operating mode: Internal FDD / Worst
Test procedure: ANSI C63.4-1992

Date of measurement: January 15, 2001
Temperature: 15 degree C
Humidity: 58 %

Frequency (MHz)	Level		Ant. Factor (dB/m)	Cable Loss (dB)	Amp. Gain (dB)	Result		Result Ver. Hor. (uV/m)	3 Meter Limit (uV/m)	Margin	
	Ver.	Hor.				Ver.	Hor.			Ver.	Hor.
37.95	42.0	-	13.1	2.0	-27.2	29.9	-	31.26	-	40.0	10.1
42.75	42.0	-	13.0	2.0	-27.0	30.0	-	31.62	-	40.0	10.0
48.31	43.0	42.0	12.5	2.2	-27.0	30.6	29.6	33.88	30.20	40.0	9.4 10.4
53.68	45.0	-	11.8	2.3	-26.9	32.2	-	40.74	-	40.0	7.8
65.13	45.0	49.0	9.0	2.6	-26.9	29.7	33.7	30.55	48.42	40.0	10.3 6.3
73.15	-	46.0	8.0	2.7	-27.0	-	29.7	-	30.55	40.0	- 10.3
113.81	-	44.0	10.4	3.6	-26.9	-	31.1	-	35.89	43.5	- 12.4
322.13	-	41.0	16.6	6.7	-26.1	-	38.2	-	81.28	46.0	- 7.8
386.58	43.0	-	14.0	7.7	-26.5	38.2	-	81.28	-	46.0	7.8
497.45	35.0	34.0	19.7	9.0	-27.2	36.5	35.5	66.83	59.57	46.0	9.5 10.5
595.98	35.0	-	20.2	10.1	-27.4	37.9	-	78.52	-	46.0	8.1

Class B limit

Radiated Emission-3 meter distance

Frequency (MHz)	dBuV/m	uV/m
30-88	40.0	100
88-216	43.5	150
216-960	46.0	200
>960	54.0	500

Report processed by

Juniko Tsujiai
Juniko Tsujiai
19/Jan./2001

M. Nishimura
Motomichi Nishimura, Engineer

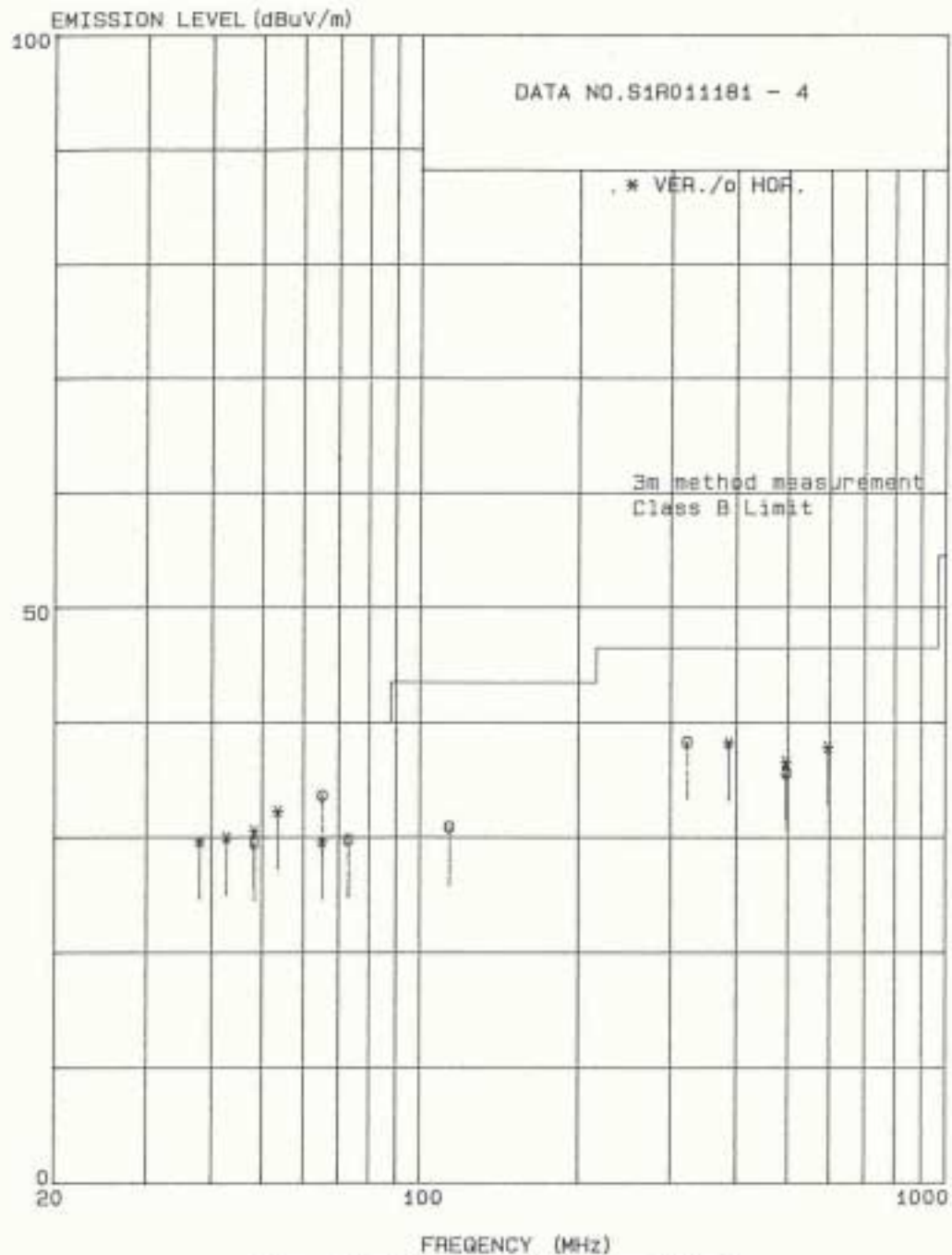


Figure 6.2-2b RFI Field Strength Measurement Results

Table 6.2-2b RFI Field Strength Measurement Results (1GHz ~ 5GHz)

Operating mode: Internal FDD / Worst Date of measurement: January 15, 2001
 Test procedure: ANSI C63.4-1992 Temperature: 17 degree C
 Humidity: 61 %

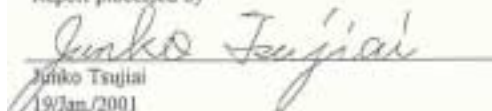
Frequency (GHz)	Level Ver. Hor. (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp. Gain (dB)	Result Ver. Hor. (dBuV/m)	Result Ver. Hor. (uV/m)	3 Meter Limit (uV/m)	Margin Ver. Hor. (dB)
1008.15	41.0 41.0	25.0	2.8	-37.0	31.9 31.9	39.36 39.36	54.0	22.1 22.1
1056.16	44.0 42.0	25.2	2.9	-36.9	35.3 33.3	58.21 46.24	54.0	18.7 20.7
1095.32	46.0 43.0	25.4	3.0	-36.8	37.6 34.6	75.86 53.70	54.0	16.4 19.4
1121.20	42.0 -	25.5	3.0	-36.7	33.8 -	48.98 -	54.0	20.2 -
1152.19	45.0 38.0	25.6	3.1	-36.7	37.0 30.0	70.79 31.62	54.0	17.0 24.0
1159.77	47.0 42.0	25.6	3.1	-36.6	39.1 34.1	90.16 50.70	54.0	14.9 19.9
1185.43	46.0 38.0	25.7	3.1	-36.6	38.3 30.3	82.22 32.73	54.0	15.7 23.7
1224.20	43.0 39.0	25.8	3.2	-36.5	35.5 31.5	59.57 37.58	54.0	18.5 22.5
1288.62	42.0 40.0	26.1	3.3	-36.4	35.0 33.0	56.23 44.67	54.0	19.0 21.0
1675.20	39.0 41.0	27.5	3.7	-36.0	34.3 36.3	51.88 65.31	54.0	19.7 17.7
2370.77	44.0 41.0	30.0	4.3	-35.6	42.7 39.7	136.46 96.61	54.0	11.3 14.3

Class B limit

Radiated Emission-3 meter distance

Frequency (GHz)	dBuV/m	uV/m
1-5	54.0	500

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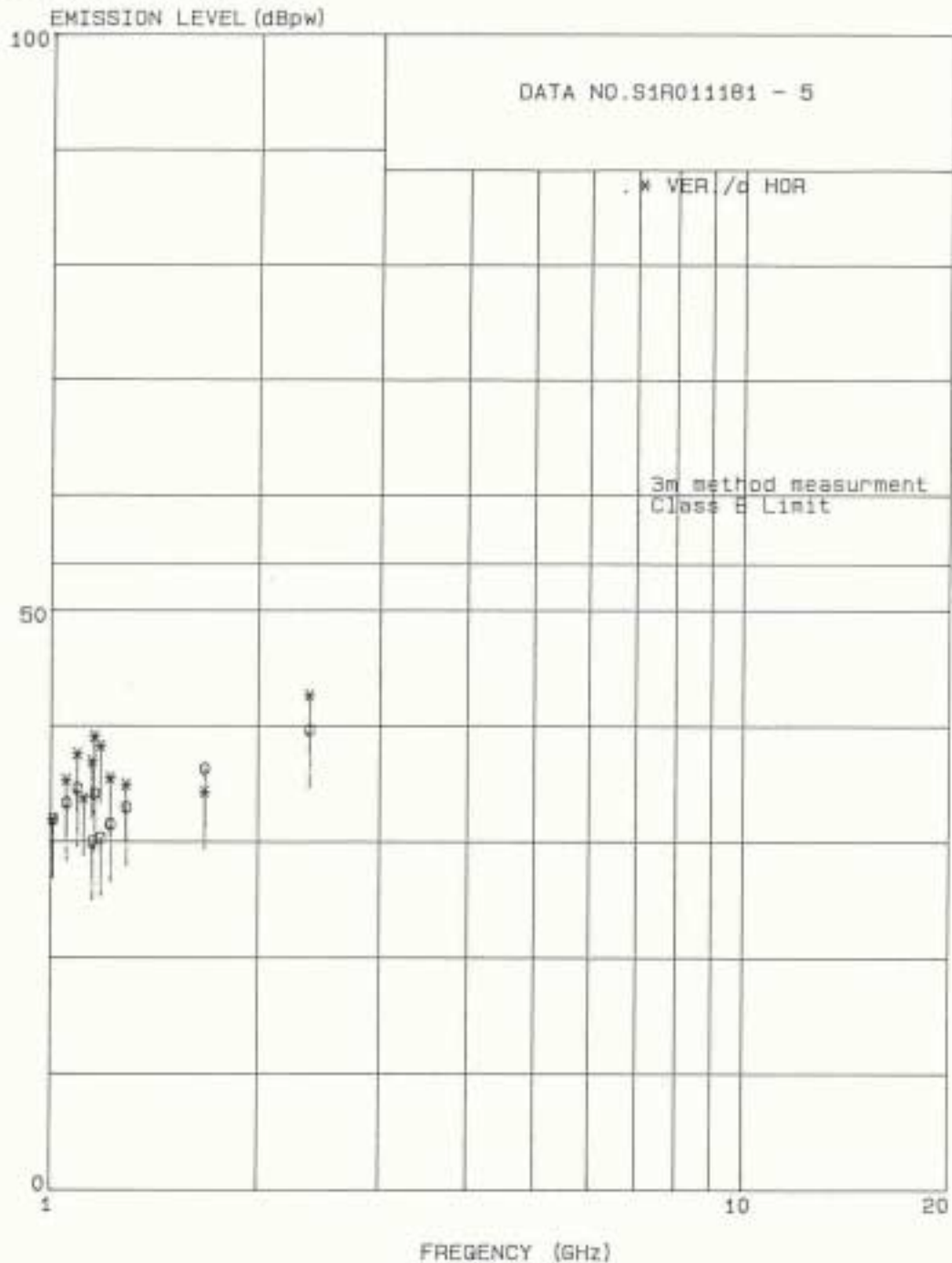


Figure 6.2-2b RFI Field Strength Measurement Results

6.3 Minimum Margin

Table 6.3-1 Minimum Margin

<u>Conducted emission</u>					
Internal FdB	operation mode	4.271	MHz,	12.3	dB
<u>Radiated emission</u>					
Internal FdB	operation mode	65.13	MHz,	6.3	dB
antenna height	/ turntable degrees	2.51	m /	020	deg.

6.4 Sample Calculation

Table 6.4-1 Sample Calculation

The maximum radiating emission can be obtained at the frequency of 2370.77 MHz,
 Vertical polarization on Internal FdB operation mode.

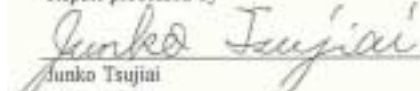
Each value at frequency is as follows;

R :	Field strength meter reading	=	44.0	(dBuV)
A :	Antenna factor	=	28.0	(dB/m)
C :	Cable loss	=	4.3	(dB)
G :	Amplifier gain	=	35.6	(dB)

Then radiated emission E(dBuV/m) is;
 $E = R + A + C - G$

Therefore, the maximum radiated emission is;
 42.7 (dBuV/m)

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