

TDK CORPORATION  
QUALITY ASSURANCE DEPARTMENT  
2-15-7 HIGASHI-OWADA , ICHIKAWA-SHI  
CHIBA 272-0026 , JAPAN

TDK EMC CENTER CHIKUMAGAWA OPEN SITE

543 OTAI SAKU-CITY NAGANO JAPAN

REPORT OF MEASUREMENTS ON DIGITAL DEVICE

Date : May 30 ,2001

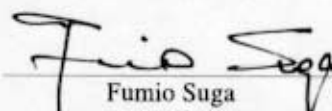
Issued in : Saku-city , JAPAN

TDK APPLICATION No.: TDC-01-0503

1. Applicant : FUJI PHOTO FILM CO. , LTD  
13-45 , SENZUI 3 - CHOME , ASAKA - SHI , SAITAMA  
351 - 8585 JAPAN
2. Factory : FUJI FILM PHOTONIX CO. , LTD  
1 - 6 , MATSUZAKADAIRA TAIWA - CHO ,  
KUROKAWA - GUN , MIYAGI - KEN , 981 - 3492 JAPAN
3. Description of Equipment Under Test (EUT)
- 3-1. EUT : DIGITAL CAMERA  
3-2. Category : FCC Class B Digital Device  
3-3. FCC ID No. : F5GFP-50I  
3-4. Trade Name : FUJIFILM  
3-5. Model No. : Fine Pix 50i  
3-6. Serial No. : RJ00030  
3-7. Date of Manufacture : April ,2001  
3-8. Power Supply : 120 V AC , 60Hz
4. Regulation Applied : FCC Part 15 Subpart B CLASS B 3m
5. Measurement Procedure Used : ANSI C63.4 - 1992
6. Place of Measurement : TDK EMC CENTER CHIKUMAGAWA OPEN SITE
7. Date of Measurement : May 11 ,2001
8. Measurement Results : The test results show that EUT conform to regulations  
applied as shown in the attached sheets.

Note : (1) The test results relate only to items tested.

(2) This report shall not be reproduced except in full without the written approval of testing  
laboratory.

  
Fumio Suga

Chief of TDK CHIKUMAGAWA OPEN SITE

Phone : 047-378-9470

TDK Application No. : TDC-01-0503

## MEASUREMENT RESULTS OF RADIATED RADIO NOISE at 3m

Date : May 11, 2001

Temp. : 16 °C ; Humi. : 60 %

Test Receiver : Rohde & Schwarz ESCS 30  
 Operation Mode : Detector function : CISPR Quasi-Peak  
 6dB Band width : 120kHz External Attenuator : none

Description of Equipment DIGITAL CAMERA

Model No. : Fine Pix 50i

Test Condition of Equipment Under Test (EUT)

1) Configuration of EUT : Refer to sheet No.7, 8 and 9.

2) EUT Grounding : None.

3) Operating Condition : CAMERA Mode .

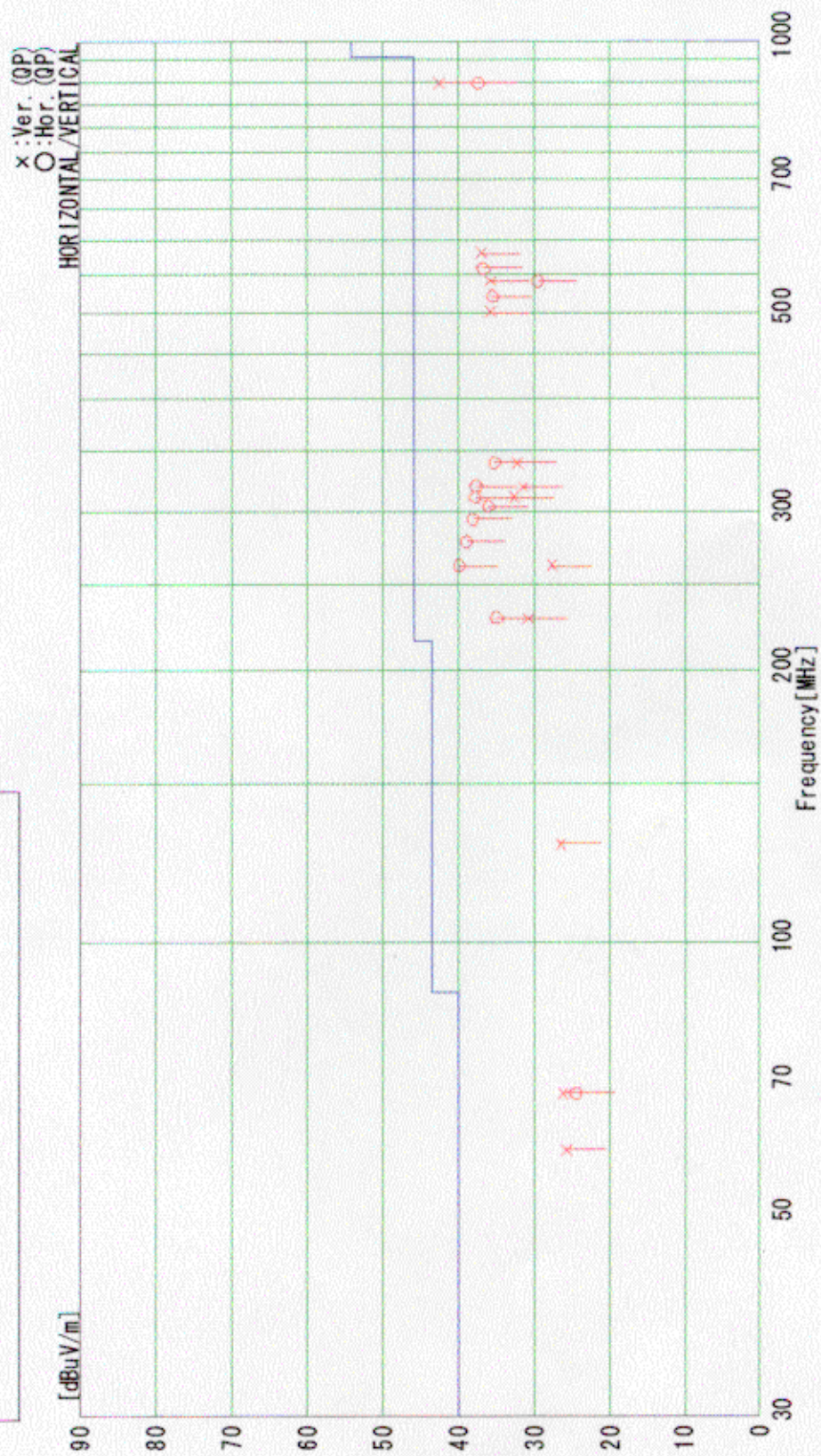
| Frequency<br>(MHz) | Correction<br>Factor<br>(dB) | Meter Reading<br>(dB $\mu$ V/m) |      | Limit<br>(dB $\mu$ V/m) | Emission Level<br>(dB $\mu$ V/m) |      | Margin<br>(dB) |
|--------------------|------------------------------|---------------------------------|------|-------------------------|----------------------------------|------|----------------|
|                    |                              | Hor.                            | Ver. |                         | Hor.                             | Ver. |                |
| 59.070             | 9.7                          | ---                             | 25.7 | 40.0                    | ---                              | 25.7 | 14.3           |
| 68.220             | 8.2                          | 24.4                            | 26.0 | 40.0                    | 24.4                             | 26.0 | 14.0           |
| 128.860            | 15.9                         | ---                             | 26.4 | 43.5                    | ---                              | 26.4 | 17.1           |
| 229.090            | 20.6                         | 34.9                            | 30.6 | 46.0                    | 34.9                             | 30.6 | 11.1           |
| 261.820            | 21.0                         | 39.8                            | 27.6 | 46.0                    | 39.8                             | 27.6 | 6.2            |
| 278.180            | 21.9                         | 38.9                            | ---  | 46.0                    | 38.9                             | ---  | 7.1            |
| 294.540            | 22.6                         | 38.0                            | ---  | 46.0                    | 38.0                             | ---  | 8.0            |
| 304.260            | 19.7                         | 36.0                            | ---  | 46.0                    | 36.0                             | ---  | 10.0           |
| 311.420            | 19.8                         | 37.7                            | 32.6 | 46.0                    | 37.7                             | 32.6 | 8.3            |
| 320.050            | 19.9                         | 37.6                            | 31.4 | 46.0                    | 37.6                             | 31.4 | 8.4            |
| 340.060            | 20.4                         | 35.2                            | 32.1 | 46.0                    | 35.2                             | 32.1 | 10.8           |
| 499.760            | 23.6                         | ---                             | 35.7 | 46.0                    | ---                              | 35.7 | 10.3           |
| 520.080            | 24.0                         | 35.4                            | ---  | 46.0                    | 35.4                             | ---  | 10.6           |
| 540.890            | 24.4                         | 29.4                            | 35.7 | 46.0                    | 29.4                             | 35.7 | 10.3           |
| 558.410            | 24.9                         | 36.7                            | ---  | 46.0                    | 36.7                             | ---  | 9.3            |
| 580.950            | 25.7                         | ---                             | 36.9 | 46.0                    | ---                              | 36.9 | 9.1            |
| 896.600            | 31.6                         | 37.3                            | 42.4 | 46.0                    | 37.3                             | 42.4 | 3.6            |
|                    |                              |                                 |      |                         |                                  |      |                |
|                    |                              |                                 |      |                         |                                  |      |                |
|                    |                              |                                 |      |                         |                                  |      |                |

Note : 1) Meter Readings include Correction Factor (Antenna factor , Cable loss).

2) Margin = Limit — Emission Level.

Tested by : *Tsunehiko Ooi*  
 Engineer of TDK Chikumagawa Open Site

FCC 15B CLASS B RADIATED 3m  
 EUT : Fine Pix 50i 120V/60Hz  
 MODE : CAMERA Mode  
 Frequency : 30 ~ 1000 MHz



TDK Application No. : TDC-01-0503

## MEASUREMENT RESULTS OF RADIATED RADIO NOISE at 3m

Date : May 11, 2001

Temp. : 16 °C ; Humi. : 60 %

Test Receiver : Rohde & Schwarz ESCS 30  
 Operation Mode : Detector function : CISPR Quasi-Peak  
 6dB Band width : 120kHz External Attenuator : none

Description of Equipment DIGITAL CAMERA

Model No. : Fine Pix 50i

Test Condition of Equipment Under Test (EUT)

1) Configuration of EUT : Refer to sheet No.7, 8 and 9.

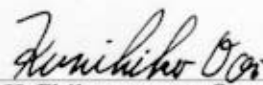
2) EUT Grounding : None.

3) Operating Condition : AUDIO Mode .

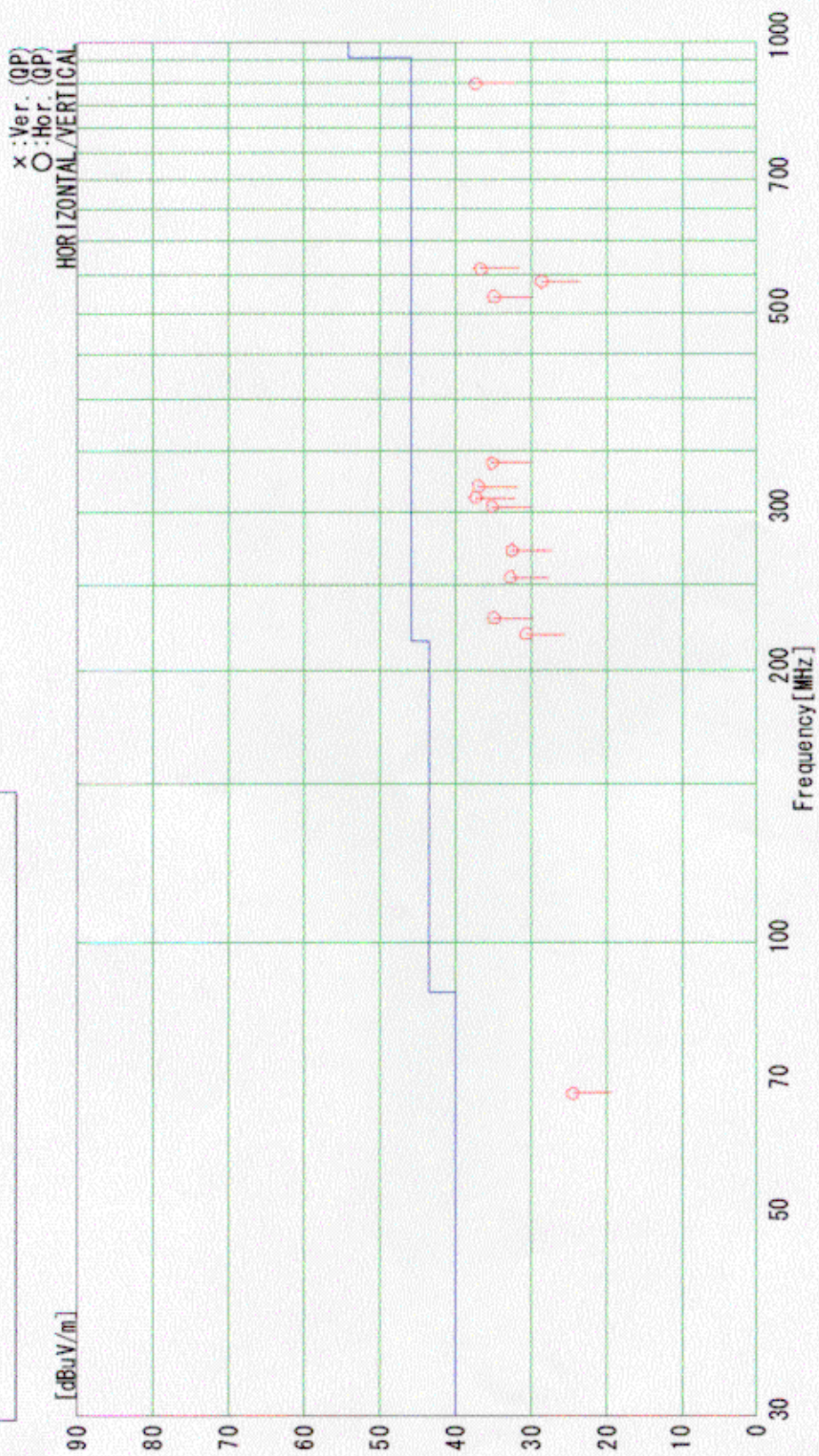
| Frequency<br>(MHz) | Correction<br>Factor<br>(dB) | Meter Reading<br>(dB $\mu$ V/m) |      | Limit<br>(dB $\mu$ V/m) | Emission Level<br>(dB $\mu$ V/m) |      | Margin<br>(dB) |
|--------------------|------------------------------|---------------------------------|------|-------------------------|----------------------------------|------|----------------|
|                    |                              | Hor.                            | Ver. |                         | Hor.                             | Ver. |                |
| 59.070             | 9.7                          | ---                             | 25.5 | 40.0                    | ---                              | 25.5 | 14.5           |
| 68.220             | 8.2                          | 24.4                            | 33.6 | 40.0                    | 24.4                             | 33.6 | 6.4            |
| 128.860            | 15.9                         | ---                             | 26.5 | 43.5                    | ---                              | 26.5 | 17.0           |
| 220.030            | 20.3                         | 30.6                            | ---  | 46.0                    | 30.6                             | ---  | 15.4           |
| 229.090            | 20.6                         | 34.9                            | 23.7 | 46.0                    | 34.9                             | 23.7 | 11.1           |
| 254.150            | 20.9                         | 32.7                            | ---  | 46.0                    | 32.7                             | ---  | 13.3           |
| 272.040            | 21.5                         | 32.5                            | ---  | 46.0                    | 32.5                             | ---  | 13.5           |
| 304.260            | 19.7                         | 35.2                            | ---  | 46.0                    | 35.2                             | ---  | 10.8           |
| 311.420            | 19.8                         | 37.3                            | 32.0 | 46.0                    | 37.3                             | 32.0 | 8.7            |
| 320.050            | 19.9                         | 36.9                            | 31.0 | 46.0                    | 36.9                             | 31.0 | 9.1            |
| 340.060            | 20.4                         | 35.1                            | 32.1 | 46.0                    | 35.1                             | 32.1 | 10.9           |
| 499.760            | 23.6                         | ---                             | 35.7 | 46.0                    | ---                              | 35.7 | 10.3           |
| 520.080            | 24.0                         | 34.9                            | ---  | 46.0                    | 34.9                             | ---  | 11.1           |
| 540.890            | 24.4                         | 28.5                            | 35.0 | 46.0                    | 28.5                             | 35.0 | 11.0           |
| 558.410            | 24.9                         | 36.7                            | ---  | 46.0                    | 36.7                             | ---  | 9.3            |
| 580.950            | 25.7                         | ---                             | 36.9 | 46.0                    | ---                              | 36.9 | 9.1            |
| 896.600            | 31.6                         | 37.3                            | 42.4 | 46.0                    | 37.3                             | 42.4 | 3.6            |
|                    |                              |                                 |      |                         |                                  |      |                |
|                    |                              |                                 |      |                         |                                  |      |                |
|                    |                              |                                 |      |                         |                                  |      |                |

Note : 1) Meter Readings include Correction Factor (Antenna factor , Cable loss).

2) Margin = Limit — Emission Level.

Tested by :   
 Engineer of TDK Chikumagawa Open Site

FCC 15B CLASS B RADIATED 3m  
 EUT : Fine Pix 50i 120V/60Hz  
 MODE : AUDIO Mode  
 Frequency : 30 ~ 1000 MHz



TDK Application No. : TDC-01-0503

## MEASUREMENT RESULTS OF RADIATED RADIO NOISE at 3m

Date : May 11 ,2001

Temp. : 16 °C ; Humi. : 60 %

Test Receiver : Rohde & Schwarz ESCS 30  
 Operation Mode : Detector function : CISPR Quasi-Peak  
 6dB Band width : 120kHz External Attenuator : none

Description of Equipment DIGITAL CAMERA

Model No. : Fine Pix 50i

Test Condition of Equipment Under Test (EUT)

1) Configuration of EUT : Refer to sheet No.7, 8 and 9.

2) EUT Grounding : None.

3) Operating Condition : USB Mode .

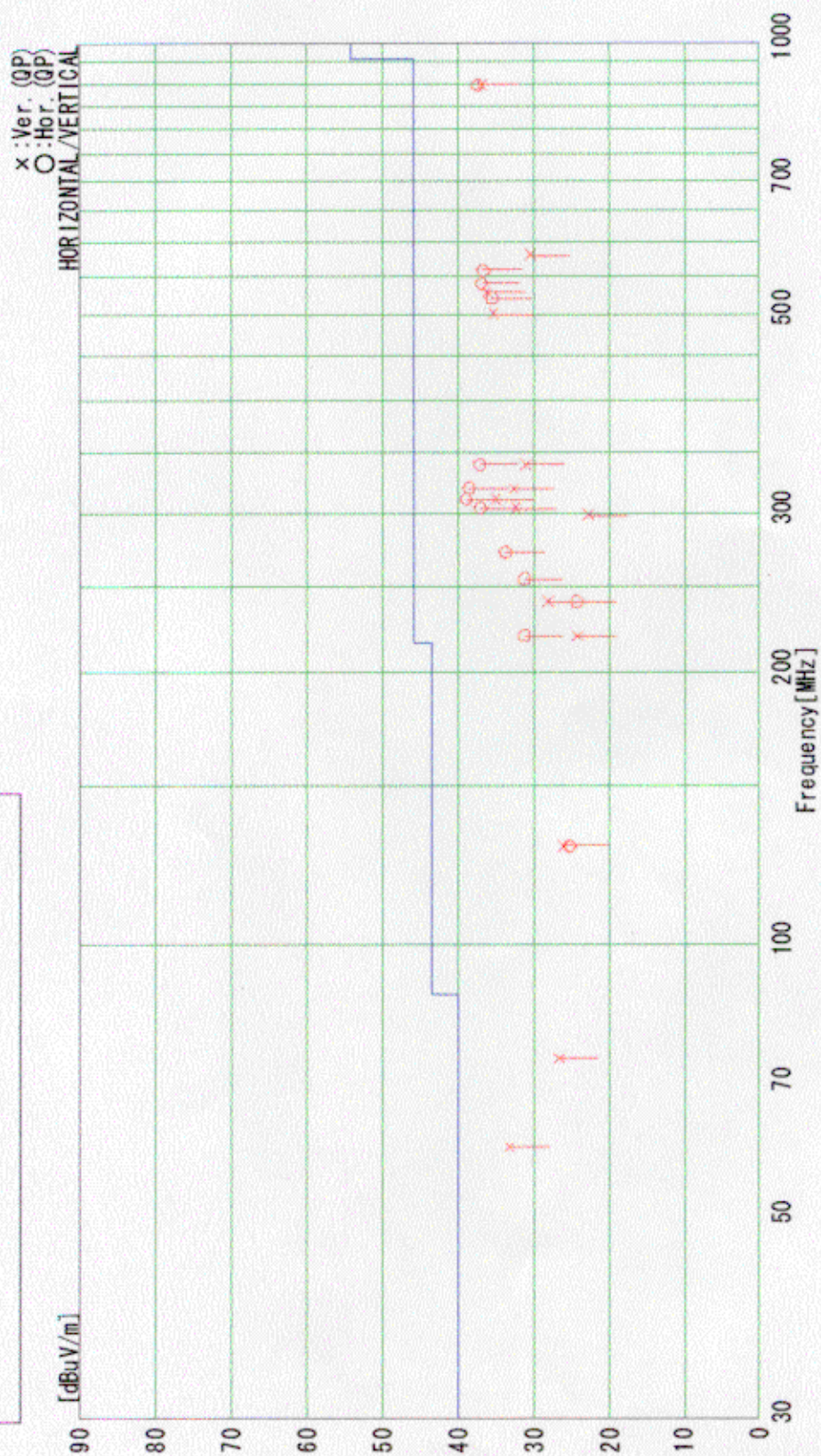
| Frequency<br>(MHz) | Correction<br>Factor<br>(dB) | Meter Reading<br>(dB $\mu$ V/m) |      | Limit<br>(dB $\mu$ V/m) | Emission Level<br>(dB $\mu$ V/m) |      | Margin<br>(dB) |
|--------------------|------------------------------|---------------------------------|------|-------------------------|----------------------------------|------|----------------|
|                    |                              | Hor.                            | Ver. |                         | Hor.                             | Ver. |                |
| 59.890             | 9.7                          | ---                             | 33.1 | 40.0                    | ---                              | 33.1 | 6.9            |
| 75.000             | 7.9                          | ---                             | 26.5 | 40.0                    | ---                              | 26.5 | 13.5           |
| 128.860            | 15.9                         | 25.2                            | 25.9 | 43.5                    | 25.2                             | 25.9 | 17.6           |
| 220.030            | 20.3                         | 31.2                            | 24.2 | 46.0                    | 31.2                             | 24.2 | 14.8           |
| 240.030            | 20.7                         | 24.3                            | 28.0 | 46.0                    | 24.3                             | 28.0 | 18.0           |
| 254.150            | 20.9                         | 31.2                            | ---  | 46.0                    | 31.2                             | ---  | 14.8           |
| 272.050            | 21.5                         | 33.7                            | ---  | 46.0                    | 33.7                             | ---  | 12.3           |
| 299.000            | 22.8                         | ---                             | 22.7 | 46.0                    | ---                              | 22.7 | 23.3           |
| 304.260            | 19.7                         | 37.0                            | 32.3 | 46.0                    | 37.0                             | 32.3 | 9.0            |
| 311.420            | 19.8                         | 38.9                            | 35.0 | 46.0                    | 38.9                             | 35.0 | 7.1            |
| 320.050            | 19.9                         | 38.5                            | 32.5 | 46.0                    | 38.5                             | 32.5 | 7.5            |
| 340.060            | 20.4                         | 37.1                            | 31.0 | 46.0                    | 37.1                             | 31.0 | 8.9            |
| 499.760            | 23.6                         | ---                             | 35.2 | 46.0                    | ---                              | 35.2 | 10.8           |
| 520.080            | 24.0                         | 35.5                            | ---  | 46.0                    | 35.5                             | ---  | 10.5           |
| 528.030            | 24.2                         | ---                             | 36.2 | 46.0                    | ---                              | 36.2 | 9.8            |
| 540.080            | 24.4                         | 36.8                            | ---  | 46.0                    | 36.8                             | ---  | 9.2            |
| 558.410            | 24.9                         | 36.7                            | ---  | 46.0                    | 36.7                             | ---  | 9.3            |
| 581.060            | 25.7                         | ---                             | 30.4 | 46.0                    | ---                              | 30.4 | 15.6           |
| 896.600            | 31.6                         | 37.4                            | 36.8 | 46.0                    | 37.4                             | 36.8 | 8.6            |
|                    |                              |                                 |      |                         |                                  |      |                |

Note : 1) Meter Readings include Correction Factor (Antenna factor , Cable loss).

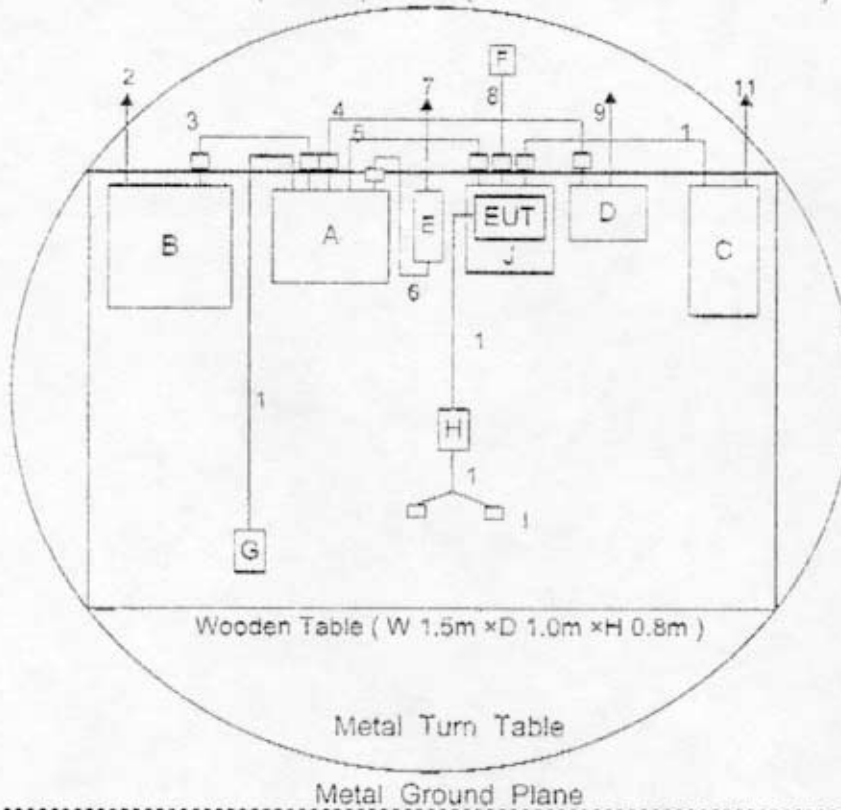
2)Margin = Limit — Emission Level.

Tested by :   
 Engineer of TDK Chikumagawa Open Site

FCC 15B CLASS B RADIATED 3m  
 EUT : Fine Pix 50i 120V/60Hz  
 MODE : USB Mode  
 Frequency : 30 ~ 1000 MHz



EUT's Test Arrangement of Radiation  
Non Metallic (F. R. P.) Dome ( W 8.0m ×D 6.3m ×H 5.5m )



### Test Configuration

| No. | Device               | MODEL No.        | FCC ID    | S/N          | Manufacturer              |
|-----|----------------------|------------------|-----------|--------------|---------------------------|
| EUT | DIGITAL CAMERA       | FinePix 50i      | F5GFP-50i | RJ00030      | FUJI PHOTO FILM CO., LTD. |
| A   | NOTE BOOK COMPUTER   | PRESARIO 12XL212 | DOC       | 1V08FHNJE1N5 | COMPAQ COMPUTER CO., LTD. |
| B   | PC MONITOR           | M2978            | BEJCA500  | CY52401HF3CV | LG ELECTRONICS            |
| C   | VIDEO MONITOR        | PVM-8040         | ----      | 2029411      | SONY                      |
| D   | SCANNER              | AS1              | F5GAS-1   | 0009         | FUJI PHOTO FILM CO., LTD. |
| E   | AC ADAPTER (PC)      | LE-9702B-01      | DOC       | 177625-001   | COMPAQ COMPUTER CO., LTD. |
| F   | AC ADAPTER (EUT)     | AC-5VS           | ---       | 9956         | FUJI PHOTO FILM CO., LTD. |
| G   | MOUSE                | M-BB48           | DOC       | LZE01271677  | LOGITECH                  |
| H   | HEAD PHONE CONTROLOR | ---              | ---       | ----         | MITSUMI                   |
| I   | HEAD PHONE SPEAKER   | ----             | ----      | ----         | MITSUMI                   |
| J   | Picture Cradle       | ----             | ----      | D1000158A    | FUJI PHOTO FILM CO., LTD. |

## Connection Cables

| No. | I/F & Power Cable       | Model No. | Cable Length | Feraite Core | Manufacturer |
|-----|-------------------------|-----------|--------------|--------------|--------------|
| 1   | MOUSE CABLE             | -----     | 1.90 m       |              | SHIELD YES   |
| 2   | PC MONITOR POWER CABLE  | -----     | 1.70 m       |              |              |
| 3   | PC MONITOR CABLE        | -----     | 1.65 m       | YES          | SHIELD YES   |
| 4   | SCSI CABLE              | -----     | 1.50 m       | YES          | SHIELD YES   |
| 5   | USB CABLE               | -----     | 1.50 m       | YES          | SHIELD YES   |
| 6   | AC ADAPTOR CABLE        | -----     | 1.50 m       | YES          | SHIELD YES   |
| 7   | ADAPTOR POWER CABLE     | -----     | 1.70 m       |              |              |
| 8   | EUT ADAPTOR CABLE       | -----     | 1.90 m       | YES          | SHIELD YES   |
| 9   | AC CABLE(SCANNER)       | -----     | 1.80 m       |              |              |
| 10  | AV CABLE                | -----     | 1.40 m       | YES          | SHIELD YES   |
| 11  | AC CABLE(VIDEO MONITOR) | -----     | 1.50 m       |              |              |
| 12  | HEAD PHONE CABLE        | -----     | 0.80 m       |              | SHIELD YES   |
| 13  | HEAD SET CABLE          | -----     | 1.11 m       |              | SHIELD YES   |
|     |                         |           |              |              |              |
|     |                         |           |              |              |              |
|     |                         |           |              |              |              |

## RADIATION MEASUREMENT

EUT : DIGITAL CAMERA

MODEL No. Fine Pix 50i

### CONFIGURATION FRONT VIEW



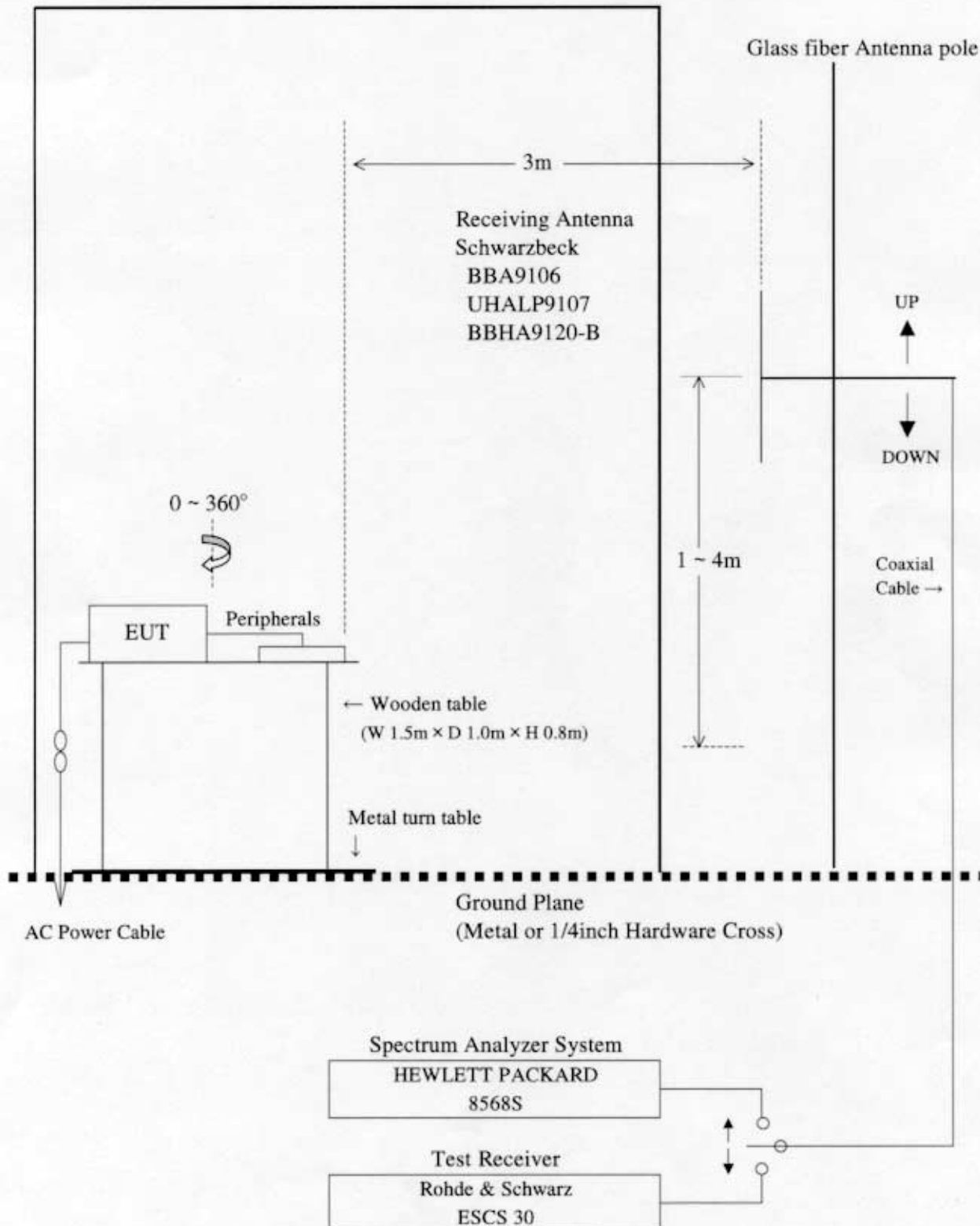
### CONFIGURATION REAR VIEW



## EUT's Test Arrangement of Radiation

Fig 1

Non metallic (F. R. P.) Dome (W 8.0m × D 6.3m × H 5.5m)



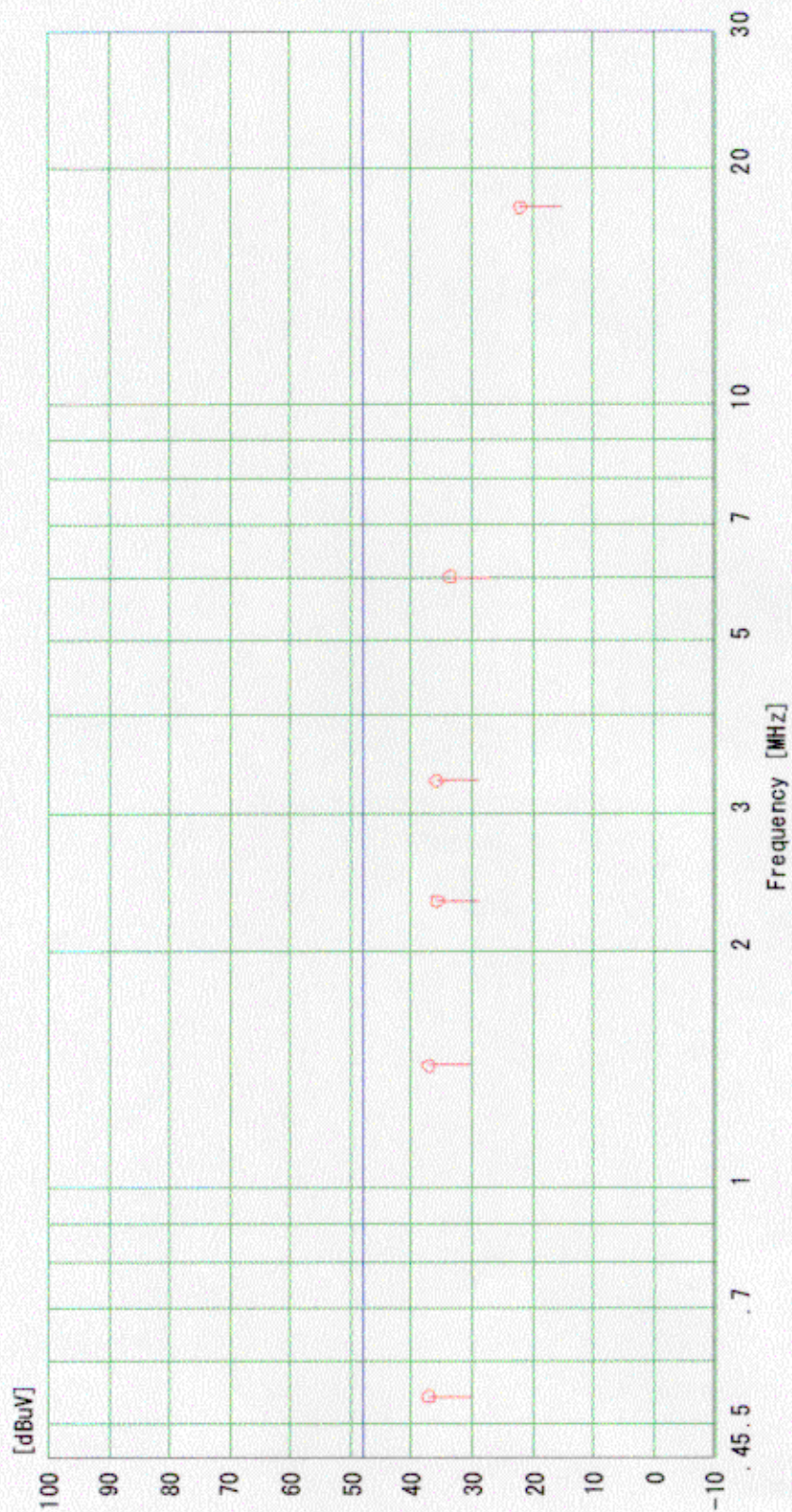


FCC 15B CLASS B CONDUCTED

EUT : Fine Pix 50i 120V/60Hz

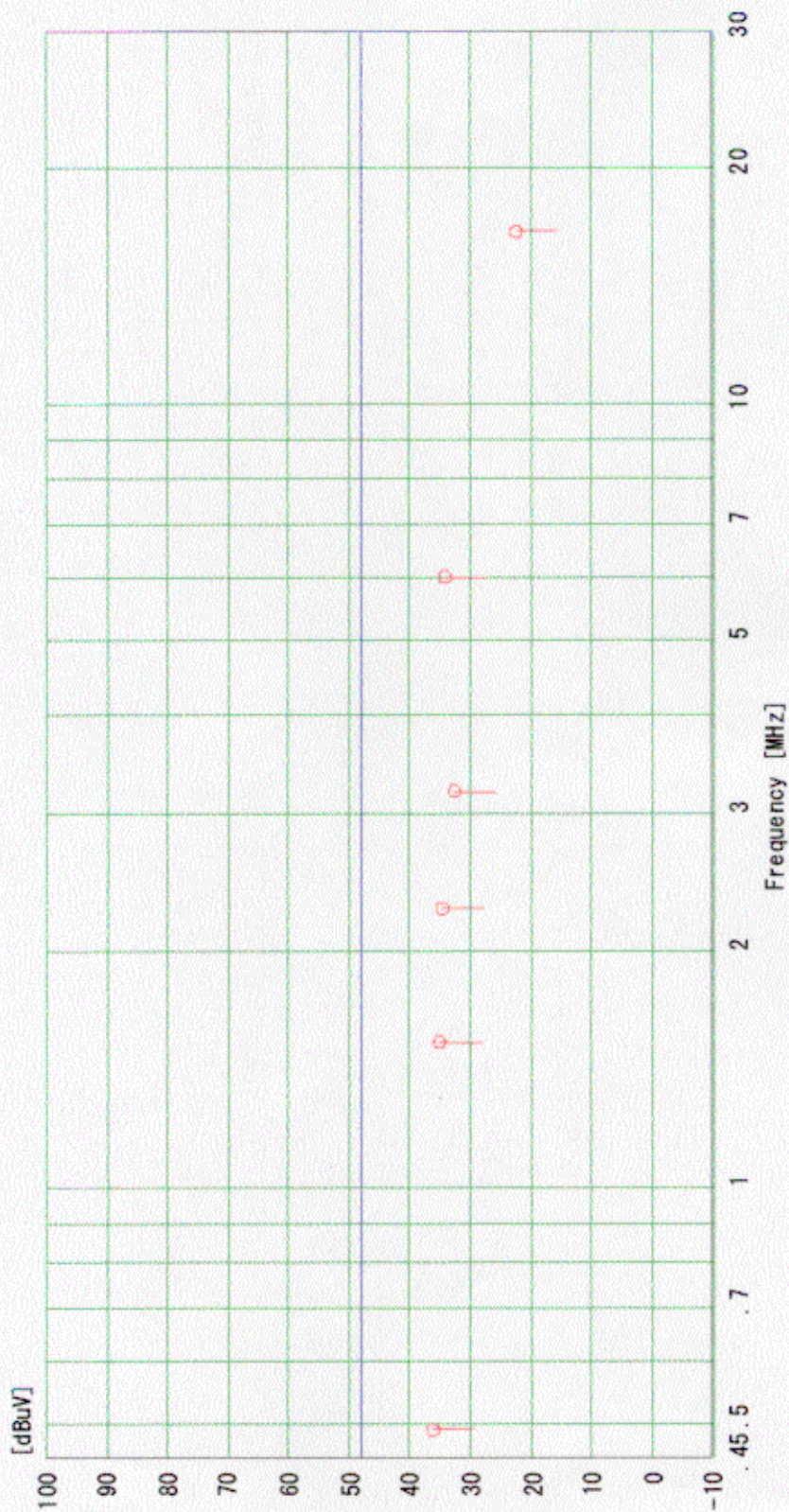
MODE : CAMERA Mode

Frequency : 0.45 ~ 30 MHz



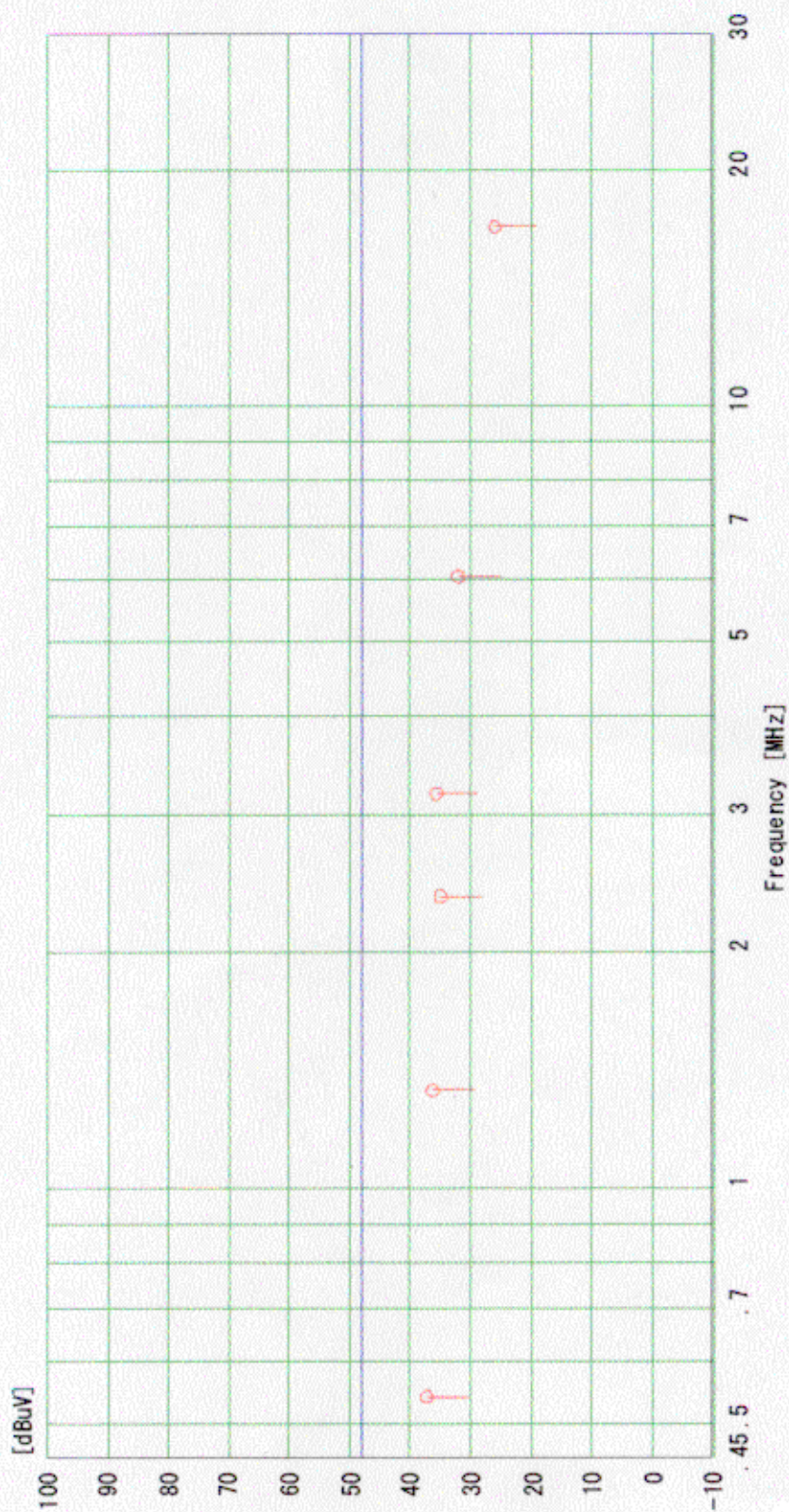


FCC 15B CLASS B CONDUCTED  
 EUT : Fine Pix 50i 120V/60Hz  
 MODE : AUDIO Mode  
 Frequency : 0.45 ~ 30 MHz





FCC 15B CLASS B CONDUCTED  
 EUT : Fine Pix 50i 120V/60Hz  
 MODE : USB Mode  
 Frequency : 0.45 ~ 30 MHz



Compact Anechoic Chamber ( W 3.0m xD 7.0m xH 3.0m )

TDK Application No : TDC-01-0503

## Connection Cables

| No. | I/F & Power Cable       | Model No. | Cable Length |   | Feraite Core | Manufacturer |
|-----|-------------------------|-----------|--------------|---|--------------|--------------|
| 1   | MOUSE CABLE             | ----      | 1.90         | m |              | SHIELD YES   |
| 2   | PC MONITOR POWER CABLE  | ----      | 1.70         | m |              |              |
| 3   | PC MONITOR CABLE        | ----      | 1.65         | m | YES          | SHIELD YES   |
| 4   | SCSI CABLE              | ----      | 1.50         | m | YES          | SHIELD YES   |
| 5   | USB CABLE               | ----      | 1.50         | m | YES          | SHIELD YES   |
| 6   | AC ADAPTOR CABLE        | ----      | 1.50         | m | YES          | SHIELD YES   |
| 7   | ADAPTOR POWER CABLE     | ----      | 1.70         | m |              |              |
| 8   | EUT ADAPTOR CABLE       | ----      | 1.90         | m | YES          | SHIELD YES   |
| 9   | AC CABLE(SCANNER)       | ----      | 1.80         | m |              |              |
| 10  | AV CABLE                | ----      | 1.40         | m | YES          | SHIELD YES   |
| 11  | AC CABLE(VIDEO MONITOR) | ----      | 1.50         | m |              |              |
| 12  | HEAD PHONE CABLE        | ----      | 0.80         | m |              | SHIELD YES   |
| 13  | HEAD SET CABLE          | ----      | 1.11         | m |              | SHIELD YES   |
|     |                         |           |              |   |              |              |

## CONDUCTION MEASUREMENT

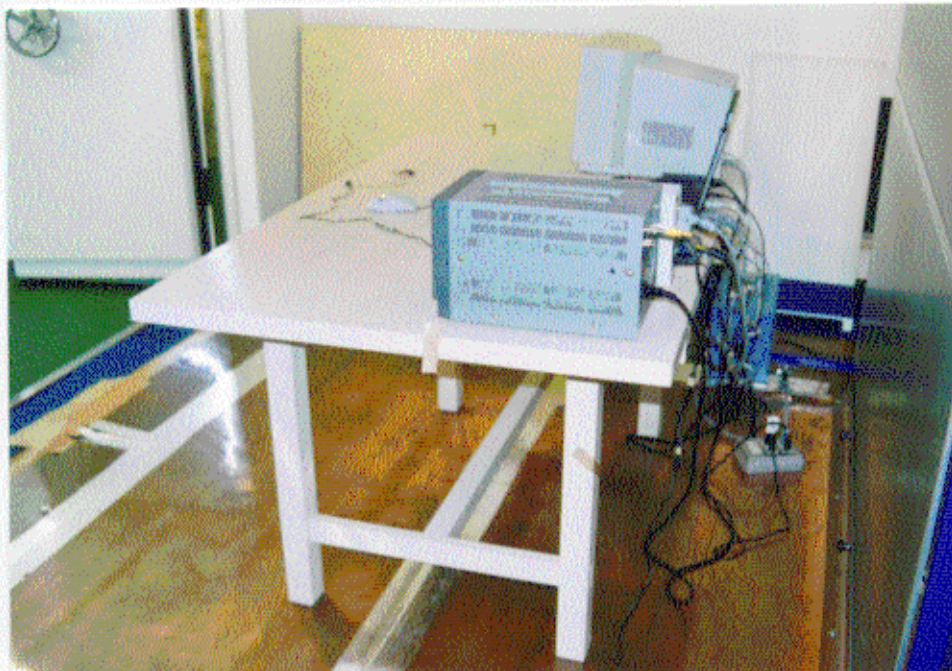
EUT : DIGITAL CAMERA

MODEL No. Fine Pix 50i

### CONFIGURATION FRONT VIEW



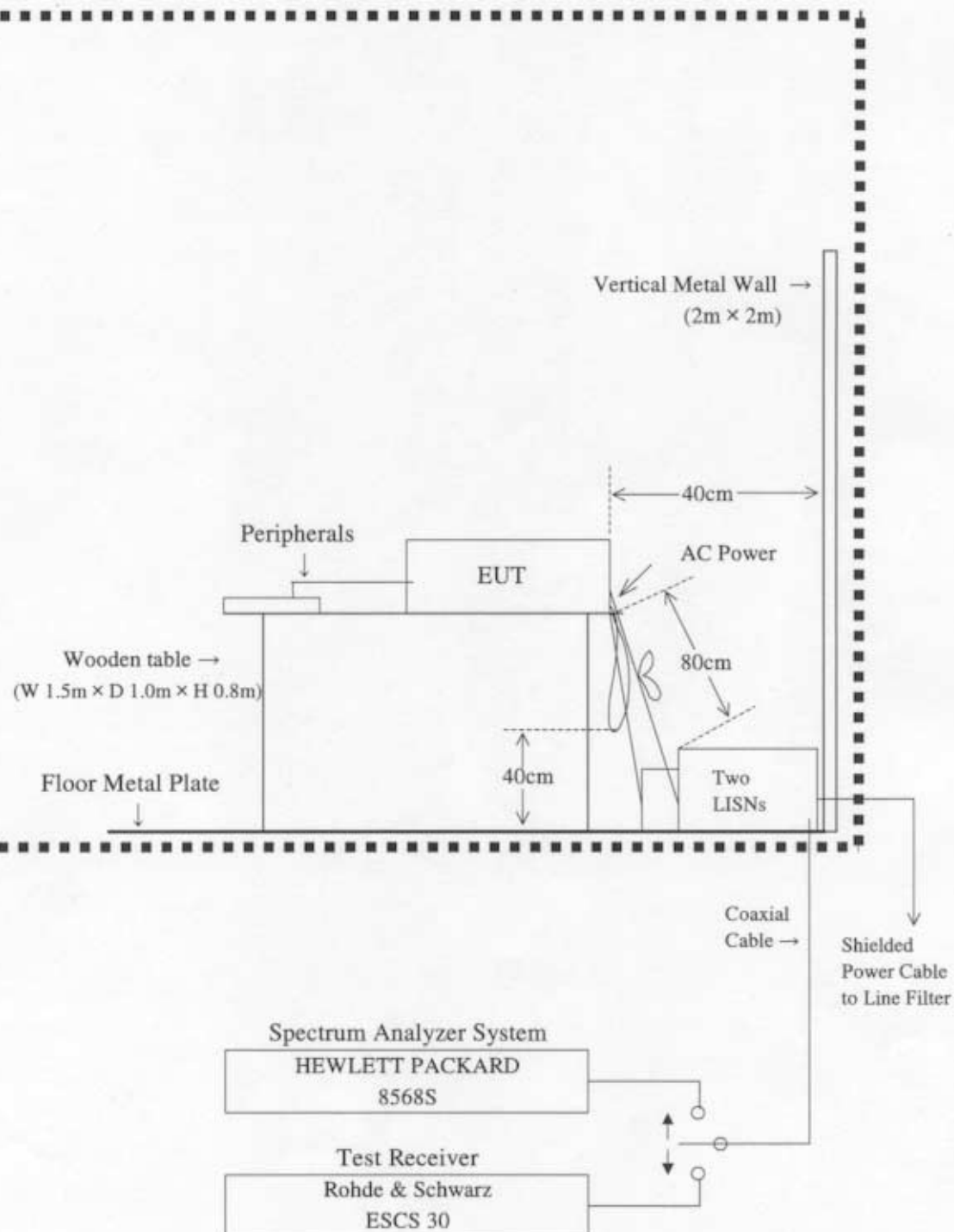
### CONFIGURATION SIDE VIEW



## EUT's Test Arrangement of Conduction

Fig 2

Compact Anechoic Chamber (W 3.0m × D 7.0m × H 3.0m)



TDK Application No. : TDC-01-0503

## MEASURING INSTRUMENT USED

TDK APPLICATION No. : TDC-01-0503

| <input type="checkbox"/>            | <u>Instrument</u>              | <u>Model No.</u> | <u>Manufacturer</u>      | <u>ID No.</u> | <u>Last Calibration Date</u> | <u>Period</u> |
|-------------------------------------|--------------------------------|------------------|--------------------------|---------------|------------------------------|---------------|
| <input checked="" type="checkbox"/> | Spectrum Analyzer              | 8568B            | Hewlett-Packard          | 2445A00924    | Mar. 2001                    | 1 year        |
| <input checked="" type="checkbox"/> | RF-Preselector                 | 85685A           | Hewlett-Packard          | 2648A00481    | Mar. 2001                    | 1 year        |
| <input checked="" type="checkbox"/> | Field Strength Meter           | ESCS 30          | Rohde & Schwarz          | 825788/007    | Feb. 2001                    | 1 year        |
| <input checked="" type="checkbox"/> | Field Strength Meter           | ESCS 30          | Rohde & Schwarz          | 834115/020    | Feb. 2001                    | 1 year        |
| <input type="checkbox"/>            | Field Strength Meter           | ESMI             | Rohde & Schwarz          | 61360008      | Oct. 2000                    | 1 year        |
| <input checked="" type="checkbox"/> | Pre - Amplifier                | 8447D            | Hewlett-Packard          | 2443A04539    | Mar. 2001                    | 1 year        |
| <input type="checkbox"/>            | Pre - Amplifier                | 8449B            | Hewlett-Packard          | 3008A01391    | Mar. 2001                    | 1 year        |
| <input checked="" type="checkbox"/> | Biconical Antenna              | BBA9106          | Schwarzbeck              | D-6901 No.2   | Apr. 2001                    | 1 year        |
| <input checked="" type="checkbox"/> | Log-Periodic Antenna           | UHALP9107        | Schwarzbeck              | 424/517       | Apr. 2001                    | 1 year        |
| <input type="checkbox"/>            | Dipole Antenna                 | VHA9103          | Schwarzbeck              | D-6901 No.3   | Apr. 2001                    | 1 year        |
| <input type="checkbox"/>            | Dipole Antenna                 | UHA9105          | Schwarzbeck              | 29-14066      | Apr. 2001                    | 1 year        |
| <input checked="" type="checkbox"/> | LISN (50 $\mu$ H/50 $\Omega$ ) | KNW-407          | Kyoritsu Electrical Work | 8-680-7       | Mar. 2001                    | 1 year        |
| <input checked="" type="checkbox"/> | LISN (50 $\mu$ H/50 $\Omega$ ) | KNW-407          | Kyoritsu Electrical Work | 8-823-10      | Mar. 2001                    | 1 year        |
| <input type="checkbox"/>            | LISN (50 $\mu$ H/50 $\Omega$ ) | KNW-408          | Kyoritsu Electrical Work | 8-652-35      | Mar. 2001                    | 1 year        |
| <input type="checkbox"/>            | LISN (50 $\mu$ H/50 $\Omega$ ) | ESH2-Z5          | Rohde & Schwarz          | 881 362/011   | Mar. 2001                    | 1 year        |
| <input checked="" type="checkbox"/> | Open Test Site                 | TCO-10           | TDK Corporattion         | GD-0043-5     | Apr. 2000                    | 1 year        |
| <input checked="" type="checkbox"/> | Co-axial Cable                 | AK9513           | Schwarzbeck              | N-C007        | Apr. 2001                    | 1 year        |
| <input type="checkbox"/>            | Co-axial Cable                 | 8D-2V            | Shinagawa Densen         | N-C012        | Apr. 2001                    | 1 year        |
| <input type="checkbox"/>            | Co-axial Cable                 | 8D-2V            | Shinagawa Densen         | N-C013        | Apr. 2001                    | 1 year        |
| <input checked="" type="checkbox"/> | Co-axial Cable                 | 8D-2V            | Shinagawa Densen         | N-C014        | Apr. 2001                    | 1 year        |
| <input checked="" type="checkbox"/> | Co-axial Cable                 | 8D-2V            | Shinagawa Densen         | N-C016        | Apr. 2001                    | 1 year        |
| <input checked="" type="checkbox"/> | Co-axial Cable                 | 5D-2W            | Shinagawa Densen         | N-C017        | Apr. 2001                    | 1 year        |
| <input checked="" type="checkbox"/> | RF Switch (EMI Interface)      | MP59B            | Anritsu                  | N-C025        | Apr. 2001                    | 1 year        |