

EMI TEST REPORT

JQA APPLICATION No. : **50-20293**

Model/Type No. : R-310H

Type of Equipment : Microwave Oven

Regulation applied : FCC Rules and Regulations Part 18

FCC ID : APYDMR0140

Applicant : Sharp Corporation, Reliability Control Group

Address : 22-22 Nagaike-Cho, Abeno-Ku,
Osaka 545-8522, Japan

Manufacturer : Sharp Appliances (Thailand) Limited

Address : 64 Moo 5, Tambol Bangsamuk, Amphur Bangpakong,
Chachoengsao, Province, Thailand

Received date of EUT : December 18, 2002

Final Judgment : Passed

TEST RESULT IN THIS REPORT are obtained in used of equipments that is traceable to National Institute of Advanced Industrial Science and Technology (AIST) of Japan and Communications Research Laboratory (CRL) of Japan.

THE TEST RESULTS only responds to the test sample.
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This report must not used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

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1.1 GENERAL INFORMATION

1.1.1 Test Facility :

- 1) Test Facility located at Chubu Testing Center SHIKATSU Branch :
An anechoic Chamber (3 m and 10 m, on common plane) and a shielded Room
Date of Listing : September 11, 2002
FCC filing No.:31040/SIT 1300F2
- 2) Chubu Testing Center SHIKATSU Branch is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance established in Title 15, Part 285 Code of Federal Regulations.
NVLAP Lab Code : 200190-0

1.1.2 Description of the Equipment Under Test :

- 1) Type of Equipment : Microwave Oven
- 2) Model/Type No. : R-310H
- 3) Type of Magnetron : 2M248H(L)
- 4) Category : ISM Frequency Device
- 5) EUT Authorization : Certification
- 6) FCC ID : APYDMR0140
- 7) Product Type : Prototype
- 8) Serial No. : N/A
- 9) Date of manufacturer : December, 2002
- 10) Trade Name : Sharp
- 11) Fundamental Frequency : 2450.0 MHz
Generated in the EUT
- 12) Highest Frequency : 2450.0 MHz
Used in the EUT
- 13) Power Rating : 120VAC 60Hz 1-Phase
- 14) Rated Power Output : 1200 W
- 15) EUT Grounding : Grounded at the plug end of the power line cord.

1.1.3 Definitions for symbols used in this test report :

- Black box indicates that the listed condition, Regulation or equipment is applicable for this report.
- Blank box indicates that the listed condition, Regulation or equipment is not applicable for this report.

1.2 TEST REGULATION

FCC Rules and Regulations Part 18 Subpart A, B and C(October 1, 2001).

Test Procedure :

The test was performed according to the procedures in FCC/OETMP-5(1985).

1.3 TEST CONDITIONS

1.3.1 **The measurement of the RF Power Output**
was performed in the following test site.

Test Location :

KITA KANSAI Testing Center
7-7, Ishimaru, 1-Chome, Mino-Shi, Osaka, 562-0027, JAPAN

- Anechoic Chamber
- Shielded Room

Used Test Instruments :

Model No.	Assigned C/N	Last Cal.	Interval
- 2533-21	08011090	2002/04/30	1 Year
- 245506	Q47097361	2002/04/30	1 Year
- SIII-5000	Q47097350	2002/02/28	1 Year

Environmental Conditions :

Temperature: 24.0 Humidity: 53.0 %

1.3.2 The measurement of the ISM Frequency

was performed for line voltage variation 80% to 125% of normal rated voltage, in the following test site.

Test Location :

Chubu Testing Center SHIKATSU Branch
53-1, Yamaura, Yakushiji, Shikatsu-cho, Nishikasugai-gun, Aichi 481-0005, JAPAN

- Anechoic Chamber (3 meter site)
- Anechoic Chamber (10 meter site)

Used Test Instruments :

Type	Model No.	Manufacturer	Serial No.	Last Cal.	Interval
- Spectrum Analyzer	8566B	Hewlett Packard	2937A06026	2001/07/06	1 Year
- Horn Antenna	3160-03	EMCO	9911-1065	2002/05/23	1 Year
- RF Cable	-	Hewlett Packard	A-2	2002/05/02	1 Year

Environmental Conditions :

Temperature: 22.0 Humidity: 48.0 %

1.3.3 The measurement of the Radiated Emission(Magnetic Field)

was performed in the frequency range of 9 kHz - 30 MHz, in the following test site.

Test Location :

Chubu Testing Center SHIKATSU Branch

53-1, Yamaura, Yakushiji, Shikatsu-cho, Nishikasugai-gun, Aichi 481-0005, JAPAN

- Anechoic Chamber

Used Test Instruments :

Type	Model No.	Manufacturer	Serial No.	Last Cal.	Interval
- Field Strength Meter	ESH 2	Rohde & Schwarz	864125/007	2002/04/18	1 Year
- Loop Antenna	6502	EMCO	8811-2249	2002/04/04	1 Year
- RF Cable	3D-2W	Fujikura	S-A	2002/05/02	1 Year

Environmental Conditions :

Temperature: 20.0 Humidity: 37.0 %

1.3.4 The measurement of the Radiated Emission(Electric Field)

was performed horizontal and vertical polarization, in frequency range 30MHz - 1000MHz, in the following test site.

Test Location :

Chubu Testing Center SHIKATSU Branch
53-1, Yamaura, Yakushiji, Shikatsu-cho, Nishikasugai-gun, Aichi 481-0005, JAPAN

- Anechoic Chamber (3 meters)
- Anechoic Chamber (10 meters)

Validation of Site Attenuation :

- 1) Last Confirmed Date : May 02, 2002
- 2) Interval : 1 Year

Used Test Instruments :

Type	Model No.	Manufacturer	Serial No.	Last Cal.	Interval
- Field Strength Meter	ESVP	Rohde & Schwarz	860687/029	2002/06/07	1 Year
- Biconical Antenna	BBA9106	Schwarzbeck	ANT-5-003	2001/12/19	1 Year
- Log-periodic Antenna	UHALP9107	Schwarzbeck	ANT-5-001	2001/12/19	1 Year
- RF Cable	5D-2W	Fujikura	A-3	2002/05/02	1 Year
- RF Cable	5D-2W	Fujikura	A-10	2002/05/02	1 Year

Environmental Conditions :

Temperature: 20.0 Humidity: 37.0 %

1.3.5 The measurement of the Radiated Emission(Electric Field)

was performed horizontal and vertical polarization, in frequency range 1GHz - 26GHz, in the following test site.

Test Location :

Chubu Testing Center SHIKATSU Branch
53-1, Yamaura, Yakushiji, Shikatsu-cho, Nishikasugai-gun, Aichi 481-0005, JAPAN

- Anechoic Chamber (3 meters)
- Anechoic Chamber (10 meters)

Used Test Instruments :

Type	Model No.	Manufacturer	Serial No.	Last Cal.	Interval
- Spectrum Analyzer	8566B	Hewlett Packard	2937A06026	2002/07/24	1 Year
- Horn Antenna	3160-01	EMCO	9908-1032	2002/05/23	1 Year
- Horn Antenna	3160-02	EMCO	9901-1047	2002/05/23	1 Year
- Horn Antenna	3160-03	EMCO	9911-1065	2002/05/23	1 Year
- Horn Antenna	3160-04	EMCO	9911-1059	2002/05/23	1 Year
- Horn Antenna	3160-05	EMCO	9911-1073	2002/05/23	1 Year
- Horn Antenna	3160-06	EMCO	9910-1051	2002/05/23	1 Year
- Horn Antenna	3160-07	EMCO	9911-1123	2002/05/23	1 Year
- Horn Antenna	3160-08	EMCO	9912-1036	2002/05/23	1 Year
- Horn Antenna	3160-09	EMCO	9911-1187	2002/05/23	1 Year
- Horn Antenna	3160-10	EMCO	9911-1110	2002/05/23	1 Year
- Attenuator	8493C	Hewlett Packard	2708A07046	2002/10/31	1 Year
- PR AMP	DWT-12013	DBS Microwave	003	2002/09/13	1 Year
- PR AMP	DWT-18037	DBS Microwave	006	2002/11/01	1 Year
- Mixer	MZ5010C	WJ	082025	2002/10/31	1 Year
- RF Cable	-	Hewlett Packard	A-2	2002/05/02	1 Year
- RF Cable	-	Hewlett Packard	A-0.5	2002/05/02	1 Year

Environmental Conditions :

Temperature: 22.0 Humidity: 48.0 %

1.4 EUT Modification / Deviation of Test Method

EUT Modification :

- No modifications were conducted by JQA to achieve compliance to Limits.
- To achieve compliance to Limits, the following change(s) were made by JQA during the compliance test.

The modification will be implemented in all production models of this equipment.

Applicant : N/A Date :

Type Name : Position :

RESPONSIBLE PARTY

Responsible Party of Test Item(Product)

Responsible party : N/A

Contact Person : _____
Signatory

Deviation of Test Method :

- No deviations from the test method.
- It was employed the with following deviations from the test method.

1.5 TEST RESULTS

RF Power Output

Measurement Results (Calorimetric method) 957.6 W

Applied Limits of Radiated Emission 34.6 uV/m at 300 m
10.0 uV/m at 1600 m

Remarks : _____

ISM Frequency 2.4 GHz - 2.5 GHz

The requirements are - PASSED - NOT PASSED

Worst(lowest/highest)range 2401.2 MHz - 2475.2 MHz
Against 2450 MHz \pm 50 MHz

Remarks : _____

Radiated Emissions (Magnetic Field) 9 KHz - 30 MHz

The requirements are	- PASSED	- NOT PASSED
Minimum limit margin	- dB at	- MHz
Maximum limit exceeding	dB at	MHz
Uncertainty of measurement results	+3.0 dB(2)	-3.0 dB(2)

Remarks : The spectrum was scanned from 9 KHz to 30 MHz and all emissions were found to be less than the maximum sensitivity of used test instrument.

Radiated Emissions (Electric Field) 30 MHz - 1000 MHz

The requirements are	- PASSED	- NOT PASSED
Minimum limit margin	- dB at	- MHz
Maximum limit exceeding	dB at	MHz
Uncertainty of measurement results	+3.4 dB(2)	-3.4 dB(2)

Remarks : The spectrum was scanned from 30 to 1000 MHz and all emissions were found to be less than the maximum sensitivity of used test instrument.

Radiated Emissions (Electric Field) 1 GHz - 24.5 GHz

The requirements are	- PASSED	- NOT PASSED
Minimum limit margin	9.6 dB at	4882.0 MHz
Maximum limit exceeding	dB at	MHz
Uncertainty of measurement results	+2.7 dB(2)	-2.7 dB(2)

Remarks : _____

1.6 SUMMARY**GENERAL REMARKS :**

The EUT was tested according to the requirements of FCC Rules and Regulations Part 18 Subpart A, B and C (October 1, 2001) under the test configuration, as shown in page 13 and 14.

The conclusion for the test items of which are required by the applied regulation is indicated under the final judgment.

FINAL JUDGMENT :

The "as received" sample;

- - fulfill the test requirements of the regulation mentioned on page 3.
- - fulfill the test requirements of the regulation mentioned on page 3, but with certain qualifications.
- - doesn't fulfill the test regulation mentioned on page 3.

Begin of testing : December 24, 2002

End of testing : December 25, 2002

- JAPAN QUALITY ASSURANCE ORGANIZATION -

Approved by:


Yatsuhiko Onomatsu
Manager
EMC Div. SHIKATSU Branch
JQA Chubu Testing Center

Approved Signatory :

Issued by:


Shinichi Yokoi
Assistant Manager
EMC Div. SHIKATSU Branch
JQA Chubu Testing Center

1.7 CONFIGURATION OF EUT / OPERATION OF EUT

1.7.1 Test Configuration

The Equipment Under Test (EUT) consists of :

Description	Manufacturer	Model No.	FCC ID	Serial No.
Microwave Oven	Sharp Appliances (Thailand) Ltd.	R-310H	APYDMR0140	N/A

The measurement was carried out with the following equipment connected :

None

1.7.2 Port description of the interconnecting cable of the EUT

None

1.7.3 Operation of the EUT :

Power Supply Voltage : 120VAC 60Hz 1-Phase

Operating mode :

The EUT was operated during the measurement under following load condition according to Sec. 4.1 in FCC/OET MP-5(1985).

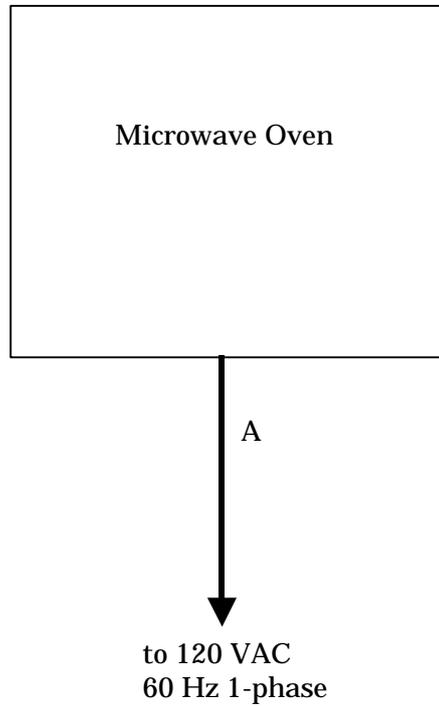
- 1) RF Power Output Measurement
1000 ml of water, with the beaker located in the center of the removable turntable.
- 2) ISM Frequency Measurement
1000 ml of water, with the beaker located in the center of the removable turntable.
- 3) Radiated Emission Measurement (radiation on second and third harmonics)
Two loads, one of 700 ml and the other of 300 ml, of water are used. Each load is tested both with the beaker located in the center of the removable turntable and with it in the right front center.
- 4) Radiated Emission Measurement (all other radiation)
700 ml of water, with the beaker located in the center of the removable turntable.

Type of Magnetron : Cat No. 2M248H(L) by Toshiba Corp.

1.7.4 The generated and operating frequency in the EUT :

2450.0 MHz

1.7.5 EUT arrangement :



1.7.6 Type of Interference Cable(s) and the AC Power Cord used with the EUT:

Cable No.	Description	Shielded	Ferrite core	Length	Connector
A	AC power cable	No	No	1.1 m	Non-metallic

1.8 PRELIMINARY TEST and TEST SET-UP (Drawing and Photograph)

Magnetic Field Radiation Emissions 9 kHz - 30 MHz :

The preliminary test was performed according to the description of FCC/OET MP-5(1985) Sec.5.1(Preliminary Radiated Emissions Test) and Sec.5.2(Equipment Configurations). The preliminary test was carried out to investigate the frequency of the emission that has the highest amplitude relative to the limits within normal operating modes, cable positions, and a typical system configuration. In order to find out to the maximum emission, the preliminary test and a final test were performed in accordance with the following steps.

Step 1: One operation mode of the test system was setting.

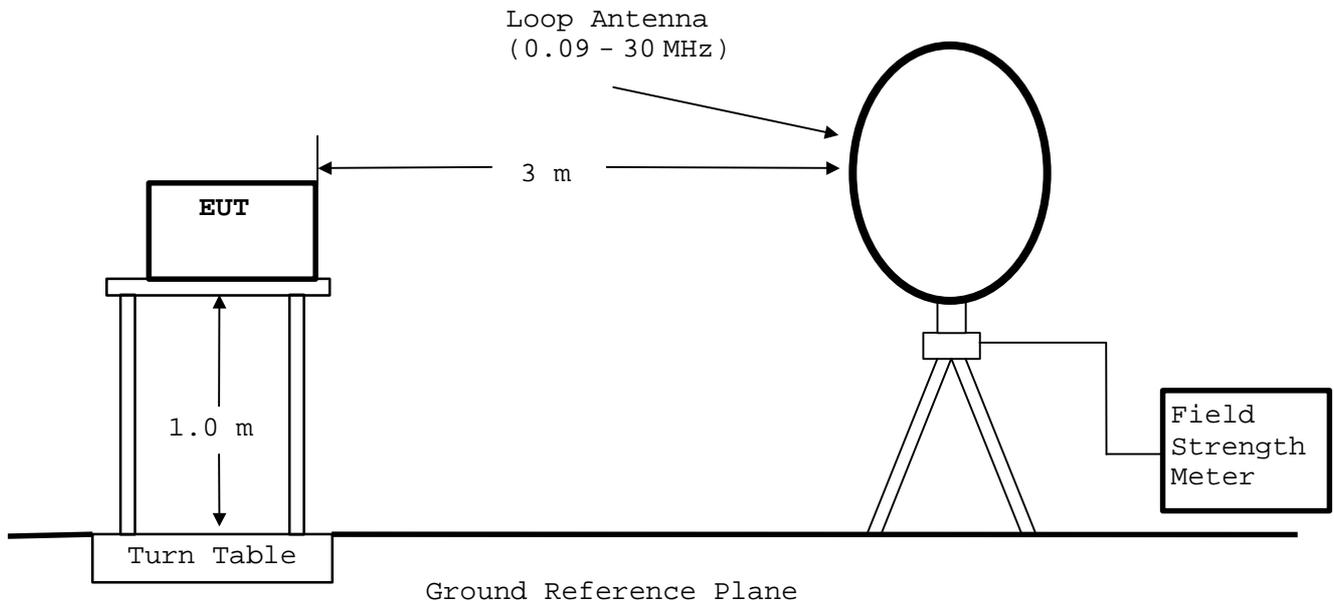
Step 2: In order to investigate the frequencies of maximum emissions, the loop antenna position was approached to the EUT and the significant frequency of the emission's circumstance from the test system were investigated. These data were recorded in the specified frequency band(9 kHz - 30 MHz).

Step 3: Using a test receiver and a loop antenna, the emissions' circumstance from the test system was measured in accordance with FCC/OETMP-5(1985) Sec.5.6 (Final Radiated Emissions Test) at each frequency which was found the higher emission referred to level vs. frequency on the list and which was measured by the loop antenna.

Step 4: Return to step 1, if the other operation mode was possible to be setting.

Step 5: The worst result was reported arranging data of which was obtained and performed by one or plural operation modes as the final test. At the worst point that the highest amplitude relative to the limit the repeatability of the level was reconfirmed. The photographs of the test system setup worst point were taken and recorded.

Anechoic Chamber

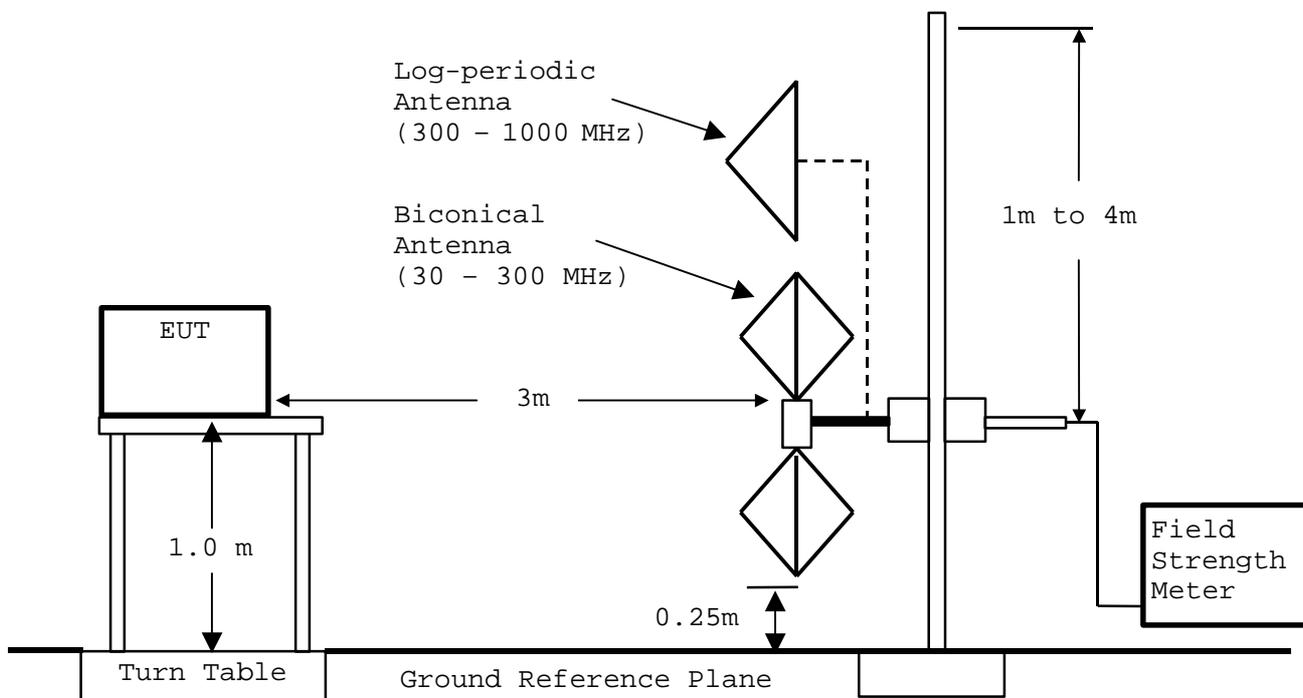


Radiated Emissions 30 MHz - 1000 MHz :

The preliminary test was performed according to the description of FCC/OET MP-5(1985) Sec.5.1(Preliminary Radiated Emissions Test) and Sec.5.2(Equipment Configurations). The preliminary test was carried out to investigate the frequency of the emission that has the highest amplitude relative to the limits within normal operating modes, cable positions, and a typical system configuration. In order to find out to the maximum emission, the preliminary test and a final test were performed in accordance with the following steps.

- Step 1:One operation mode of the test system was setting.
- Step 2:Using a test receiver and a test antenna probe, the significant frequency of the emission's circumstance from the test system were investigated. These data were recorded every one to 22 divided bands in the specified frequency band(30 MHz - 1000 MHz).
- Step 3:Using a test receiver and a resonant tuned dipole antenna, the emission's Circumstance from the test system was measured in according with FCC/OET MP-5(1985) Sec.5.6 (Final Radiated Emissions Tests) at each frequency which was found the higher emission referred to level vs. frequency on the list and which was measured by the resonant tuned dipole antenna.
- Step 4:Return to step 1, if the other operation mode was possible to be setting.
- Step 5:The worst result was reported arranging data of which was obtained and performed by one or plural operation modes as the final test.

Anechoic Chamber



Radiated Emissions 1.0 GHz - 24.5 GHz :

The preliminary test was performed according to the description of FCC/OET MP-5(1985) Sec.5.1(Preliminary Radiated Emissions Test) and Sec.5.2(Equipment Configurations).

The preliminary test was carried out to investigate the frequency of the emission that has the highest amplitude relative to the limits within normal operating modes, cable positions, and a typical system configuration.

In order to find out to the maximum emission, the preliminary test and a final test were performed in accordance with the following steps.

Step 1:One operation mode of the test system was setting.

Step 2:In order to investigate the frequencies of maximum emissions, the horn antenna position was approached to the EUT and the significant frequency of the emission's circumstance from the test system were investigated.

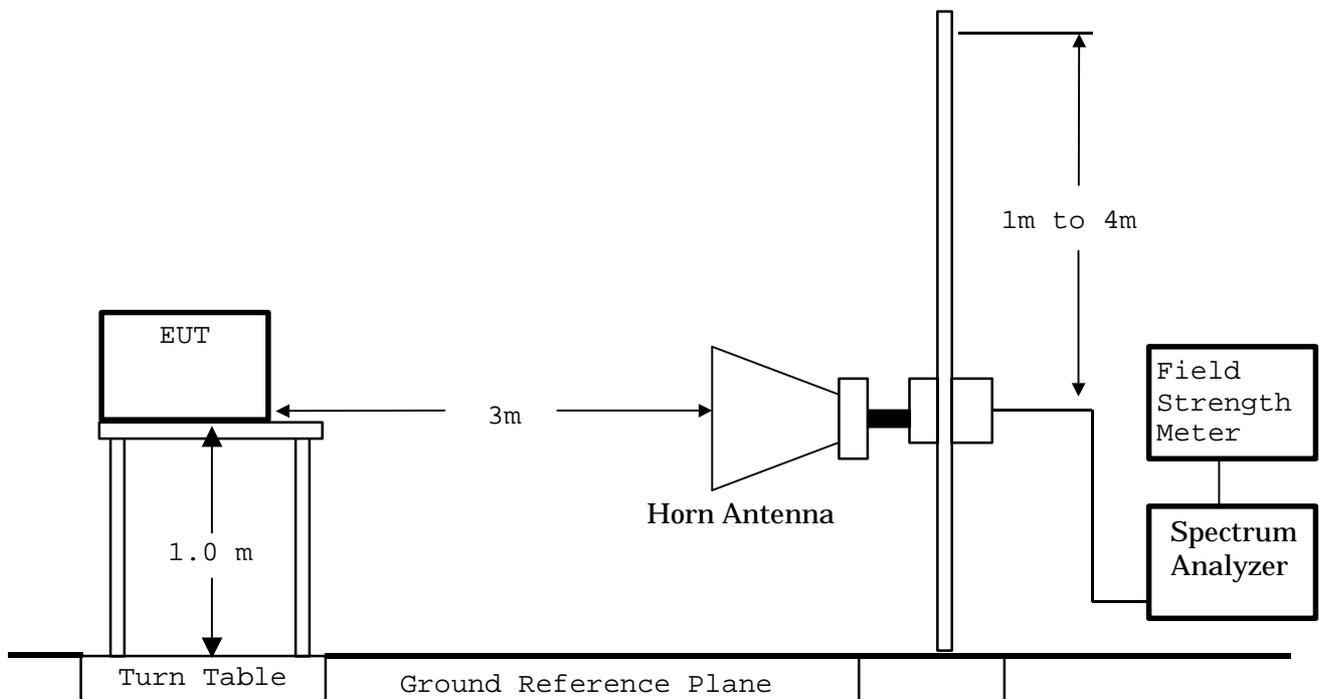
These data were recorded in the specified frequency band(1 GHz - 24.5 GHz).

Step 3:The emissions' circumstance from the test system was measured in according with FCC/OET MP-5(1985) Sec.5.6 (Final Radiated Emissions Test) at each frequency which was found the higher emission referred to level vs. frequency on the list and which was measured in the specified distance using the horn antenna.

Step 4:Return to step 1, if the other operation mode was possible to be setting.

Step 5:The worst result was reported arranging data of which was obtained and performed by one or plural operation modes as the final test. At the worst point that the highest amplitude relative to the limit the repeatability of the level was reconfirmed. The photographs of the test system setup worst point were taken and recorded.

Anechoic Chamber



Photograph :

**Photograph present configuration with maximum emissions
- Front View -**



- Rear View -



2. TEST DATA**2.1 RF Power Output Measurement**Date : December 16, 2002
Temp. : 24.0 °C Humi. : 53.0 %

The power output was measured by the calorimetric method, computing the power output from the observed temperature rise of the load over a period of time.

Load(water) : 1000 ml
Measurement time : 49.3 sec.(calculated by the rated RF power output)

No.	Water temperature[°C]		RF Power Output *) [W]
	t ₁ (before test)	t ₂ (after test)	
1	15.6	26.9	962.7
2	14.2	25.4	954.2
3	12.6	23.7	945.6
4	12.7	24.0	962.7
5	11.8	23.1	962.7
Average			957.6

$$*)RF \text{ Power Output}[W] = 4.2 \times 1000 \times (t_2 - t_1) / 49.3$$

Results of RF power output : 957.6 W

The limit of the radiated emission at 300m : $25 \times \sqrt{957.6/500} = 34.6(\mu V/m)$

The AC power input to the oven is measured to determine if the oven is operating in accordance with the manufacturer's specifications.

Rated AC power input : AC 120 V × 14.2 A = 1704.0 VA

Measured AC power input : AC 120 V × 15.0 A = 1800.0 VA

Tested by :


Yatsuhiko Onomatsu

2.2 ISM Frequency MeasurementDate : December 24, 2002Temp. : 22.0 °C Humi. : 48.0 %

The maximum frequency deviation was measured at -26dB with respect to the Maximum level.

Maximum Frequency Deviation[MHz]		Voltage Variation
Lower Frequency	Upper Frequency	
2412.0	2455.2	96 V (80%)
2401.2	2475.2	120 V (100%)
2411.0	2473.0	150 V (125%)

Remarks: Setup of Spectrum Analyzer

Detector Function : Peak
Resolution Bandwidth : 10 KHz
Video Bandwidth : 10 KHz
Sweet Time : 20 ms
Span : 100 MHz

Tested by :


Yatsuhiko Onomatsu

2.3 Magnetic Field Radiated Emissions Measurement 9 kHz - 30 MHz

Date : December 25, 2002

Temp. : 20.0 °C Humi. : 37.0 %

Frequency (MHz)	Correction Factor (dB)	Meter Reading at 3m (dB/V/m)	Limits		Result		Margin (dB)
			300m (uV/m)	1600m	300m (uV/m)	1600m	
0.01	19.7	<40.0	34.6	10.0	<0.10	<0.0034	-
0.10	10.8	<40.0	34.6	10.0	<0.03	<0.0012	-
0.15	10.7	<40.0	34.6	10.0	<0.03	<0.0012	-
1.00	10.4	<40.0	34.6	10.0	<0.03	<0.0012	-
5.00	10.8	<40.0	34.6	10.0	<0.03	<0.0012	-
10.00	10.3	<40.0	34.6	10.0	<0.03	<0.0012	-
20.00	9.8	<40.0	34.6	10.0	<0.03	<0.0012	-
30.00	8.1	<40.0	34.6	10.0	<0.03	<0.0012	-

- Notes :
- 1) Test Location : Anechoic Chamber
 - 2) Distance measurement : 3m
 - 3) The spectrum was checked from 9 KHz to 30 MHz.
 - 4) The symbol of "<" means "or less".
 - 5) The correction factor contains the antenna factor and the cable(2.0m) loss.
 - 6) A sample calculation was mad at 0.01 MHz.

$$\begin{aligned}
 \text{Correction Factor} &= 19.7 \text{ (dB)} \\
 \text{Conversion Factor} &= -80.0 \text{ (dB)} \quad [40\text{dB/decade}] \\
 \text{Meter Reading} &= 40.0 \text{ (dB/uV)} \\
 \hline
 \text{Result} &= -20.3 \text{ (dB/uV/m)} = 0.1 \text{ (uV/m)}
 \end{aligned}$$

- 7) Setting of measurement instrument
 - Detector Function : Average
 - IF Bandwidth : 10 KHz - 150 KHz : 200 Hz
 - 150 KHz - 30 MHz : 10 kHz

Tested by : *Y. Onomatsu*
 Yatsuhiko Onomatsu

2.4 Electromagnetic Field Radiated Emissions Measurement 30 MHz - 1000 MHz

Date : December 25, 2002

Temp. : 20.0 °C Humi. : 37.0 %

Frequency (MHz)	Correction Factor (dB)	Meter Reading at 3m (dB/V/m)		Limits		Result(Highest)		Margin (dB)
		Hori.	Vert.	300m (uV/m)	1600m	300m (uV/m)	1600m	
30.0	18.8	<0.0	<0.0	34.6	10.0	<0.087	<0.016	-
50.0	11.7	<0.0	<0.0	34.6	10.0	<0.038	<0.007	-
100.0	10.6	<0.0	<0.0	34.6	10.0	<0.034	<0.006	-
200.0	19.3	<0.0	<0.0	34.6	10.0	<0.092	<0.017	-
300.0	21.6	<0.0	<0.0	34.6	10.0	<0.120	<0.023	-
500.0	21.8	<0.0	<0.0	34.6	10.0	<0.123	<0.023	-
700.0	24.8	<0.0	<0.0	34.6	10.0	<0.174	<0.033	-
1000.0	29.4	<0.0	<0.0	34.6	10.0	<0.295	<0.055	-

- Notes :
- 1) Test Location : Anechoic Chamber
 - 2) Distance measurement : 3m
 - 3) The spectrum was checked from 30 to 1000 MHz.
 - 4) The symbol of "<" means "or less".
 - 5) The correction factor contains the antenna factor and the cable(22.0 m) loss.
 - 6) A sample calculation was mad at 30.0 MHz.

Correction Factor = 18.8 (dB)

Conversion Factor = -40.0 (dB) [20dB/decade]

Meter Reading = 0.0 (dB/uV)

Result = -21.2 (dB/uV/m) = 0.087 (uV/m)

- 7) Setting of measurement instrument
 - Detector Function : Average
 - IF Bandwidth : 120 KHz

Tested by :


 Yatsuhiko Onomatsu

2.5 Electromagnetic Field Radiated Emissions Measurement 1 GHz - 24.5 GHz

Date : December 24, 2002
 Temp. : 22.0 °C Humi. : 48.0 %

Frequency (MHz)	Correction Factor (dB)	Meter Reading at 3m (dB/V/m)		Limits		Result(Highest)		Margin (dB)
		Hori.	Vert.	300m (uV/m)	1600m	300m (uV/m)	1600m	
2400.0	22.3	<40.0	<40.0	34.6	10.0	<13.03	<2.44	-
2500.0	22.3	<40.0	<40.0	34.6	10.0	<13.03	<2.44	-
4193.0	-16.4	57.0	59.5	34.6	10.0	1.43	0.27	27.7
4882.0	-15.8	64.5	77.0	34.6	10.0	11.48	2.15	9.6
6872.0	-12.6	65.7	68.9	34.6	10.0	6.53	1.22	14.5
7345.5	-12.0	62.4	57.0	34.6	10.0	3.31	0.62	20.4
9800.0	-6.5	58.0	59.5	34.6	10.0	4.47	0.84	17.8
12250.0	-5.4	<40.0	<40.0	34.6	10.0	<0.54	<0.10	-
14754.0	-2.6	55.5	54.0	34.6	10.0	4.42	0.83	17.9
17285.5	-3.4	53.0	55.0	34.6	10.0	3.80	0.71	19.2
19600.0	9.3	<40.0	<40.0	34.6	10.0	<2.92	<0.19	-
22050.0	9.8	<40.0	<40.0	34.6	10.0	<3.09	<0.20	-
24500.0	9.1	<40.0	<40.0	34.6	10.0	<2.85	<0.21	-

- Notes :
- 1) Test Location : Anechoic Chamber
 - 2) Distance measurement : 3m
 - 3) The spectrum was checked from 1 to 24.5 GHz.
 - 4) The symbol of "<" means "or less".
 - 5) The correction factor contains the antenna factor , cable(2.5 m) loss, and AMP gain.
 - 6) A sample calculation was mad at 4882.0 MHz.

Correction Factor =	-15.8 (dB)
Conversion Factor =	-40.0 (dB) [20dB/decade]
Meter Reading =	77.0 (dB/uV)
Result	= 21.2 (dB/uV/m) = 11.48 (uV/m)

7) Setting of measurement instrument

Spectrum Analyzer

Detector Function	: Peak	Average
Resolution Bandwidth	: 1 MHz	3 MHz
Video Bandwidth	: 1 MHz	3 MHz
Span	: 0 Hz	0 Hz

Field Strength Meter *)

SCALE	: LINER
Detector Function	: Average
IF Bandwidth	: 1 MHz

*) For the average measurement method, it is made measurement using a test receiver and spectrum analyzer.

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