

▶ FCC ID : C5F7NF86M09000 ▶

1. Report of Measurement conducted by TOSHIBA
(With DAEWOO Magnetron of 2M218)

FCC/MEAS/101
DEC 23 1998
FCC/MEAS/101
OCT 22 1998
FCC/MEAS/101
DEC 07 1998

Mr. Byeong-Jun Kim
Research Manager
Microwave Oven
R & D Center
DAEWOO ELECTRONICS Co., LTD.
#412-2, Chongchon 2-Dong,
Pupyong-Ku, Incheon,
KOREA

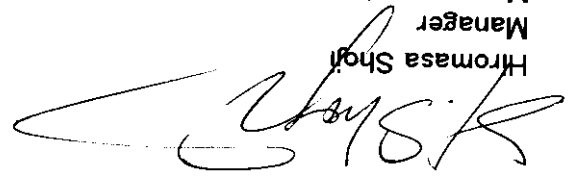
August 28, 1998
(Ref. No. : 98-093)

RE : Electromagnetic radiation from microwave oven KOR-861G
with Daewoo magnetron 2M218

Dear Mr. Kim

We are enclosing herewith the above mentioned test results based on FCC measuring method in our measuring facility of FCC file number 430A.
We confirmed test results are satisfied with FCC limit.
Please feel free to contact us, if you have any question or request.

Sincerely yours,


Hiromasa Shoji
Manager
Magnetron Application Engineering
Magnetron Engineering Department

SY/IS/n2

cc : Mr. Miyauchi TOSHIBA TOKYO
Mr. Ikegami TOSHIBA HOKUTO TOKYO

ELECTROMAGNETIC RADIATION TEST OF MICROWAVE OVEN

The following measurements were conducted in Toshiba Hokuto Electronics Corporation measurement facility of FCC file number 430A.

Date : 1998-8-27
 Oven : KOR-861G
 Tube : 2M218
 Line : 120V/60Hz

1. Output power (Load : 1000ml water (center))

Input power : 1375W
 Output power : 885W

* Permissible FIS = $33.3 \mu\text{V/m}$ at 300m
 (FIS : Field Intensity Strength)

2. Power Leak (Load : 275ml water (center))

Po leak : 0.15 mW/cm^2

3. FIS measurements

Measurement equipment (Refer Page-4)

Interference analyzer : EMC-60 MK-IV (Bandwidth : 5MHz)
 Antenna : CA-S, CA-M and CA-X

3-1 Side band radiation (Load : 700ml water (center))

Frequency (MHz)	FIS ($\mu\text{V/m}$) at 300m
2,398	4.8
2,535	3.6

3-2 Harmonics radiation

Harmonics	Load	FIS ($\mu\text{V/m}$) at 300m	Frequency (MHz)
2nd	700ml center	19.5	4,914
3rd	700ml center	19.7	7,364
4th	700ml center	10.7	9,837

Note : 2nd and 3rd Harmonics : The maximum value with the load condition such as 300ml or 700ml water in the center or side position

Frequency (MHz)	2000 - 2400	700ml center
	2500 - 4000	700ml center
	4000 - 8000	300ml or 700ml water in the center or side position
	8000 - 10000	700ml center

None of higher FIS value than those shown in the above table existed in the following frequency band.

Antenna : CA-S, CA-M and CA-X

Spectrum analyzer : HP8562A

Measurement equipment (Refer Page-4)

5. Frequency sweeping

Line voltage (V)	96	2,457
	108	2,458
	120	2,456
	132	2,457
	150	2,457
Frequency (MHz)		

4-2 The variation of frequency for line voltage variation (Load : 1000ml water center)

Volume of water (ml)	1000	2,452
	800	2,459
	600	2,459
	400	2,465
	200	2,453
Frequency (MHz)		

4-1 The variation of frequency for load variation (Load : 1000ml water center)

Antenna : CA-S, CA-M and CA-X

Interference analyzer : EMC-60 MK-IV (Bandwidth : 5MHz)

Measurement equipment (Refer Page-4)

4. Frequency measurements

No.	Equipment Name	Model Name & Manufacturer	Specification	Last Calibration Date	Calibration Frequency
1	Interference Analyzer	EMC-60 MK-IV SER: 44116 ELECTRO-METRICS	0.5 to 18 GHz	April 1997	
2	Antenna	(1) CA-S SER: 22-1 POLARAD (2) CA-M SER: 20-15 POLARAD (3) CA-X SER: 20-10 POLARAD	2.1 to 4.34 GHz 4.19 to 7.74 GHz 7.36 to 10 GHz		
3	Signal Generator	8671B SER: 2545A00106 HEWLETT PACKARD	2.0 to 18 GHz	March 1997	
4	Frequency Counter	85340A SER: 134A01280 HEWLETT PACKARD		July 1998	Annually
5	Power Meter	435A SER: 1312J00144 HEWLETT PACKARD	0 to 1 mW	July 1998	Annually
6	Power Sensor	8481A SER: 1234A871 HEWLETT PACKARD		March 1997	
7	Spectrum Analyzer	8562A SER: 2923A03932 HEWLETT PACKARD	1 kHz to 22 GHz	March 1997	

▶ FCC ID : C5F7NF86M0900 ▶

2. Report of Measurement conducted by TOSHIBA
(With TOSHIBA Magnetron of 2M254 : alternate)

FORM 211 (REV. 11-17-83)
OCT 22 1998
FEDERAL COMMUNICATIONS COMMISSION

Mr. Byeong-Jun Kim
Research Manager
Microwave Oven
R & D Center
DAEWOO ELECTRONICS Co., LTD.
#412-2, Chongchon 2-Dong,
Pupyong-Ku, Incheon,
KOREA

August 27, 1998
(Ref. No. : 98-094)

RE : Electromagnetic radiation from microwave oven KOR-861G
with Daewoo magnetron 2M254

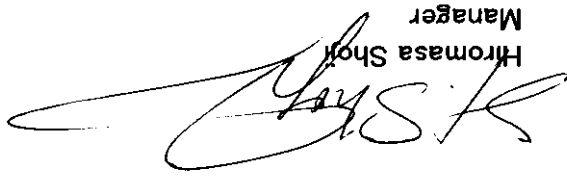
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Sincerely yours,



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cc : Mr. Miyauchi TOSHIBA TOKYO
Mr. Ikegami TOSHIBA HOKUTO TOKYO

ELECTROMAGNETIC RADIATION TEST OF MICROWAVE OVEN

The following measurements were conducted in Toshiba Hokuto Electronics Corporation measurement facility of FCC file number 430A.

Date : 1998-8-27
 Oven : KOR-861G
 Tube : 2M254
 Line : 120V/60Hz

1. Output power (Load : 1000ml water (center))

Input power : 1410W

Output power : 925W

* Permissible FIS = $34 \mu\text{V/m}$ at 300m

(FIS : Field Intensity Strength)

2. Power Leak (Load : 275ml water (center))

Po leak : 0.17 mW/cm^2

3. FIS measurements

Measurement equipment (Refer Page-4)

Interference analyzer : EMC-60 MK-IV (Bandwidth : 5MHz)
 Antenna : CA-S, CA-M and CA-X

3-1 Side band radiation (Load : 700ml water (center))

Frequency (MHz)	2,399
FIS ($\mu\text{V/m}$) at 300m	6.2
	2,504

3-2 Harmonics radiation

Harmonics	Load	FIS ($\mu\text{V/m}$) at 300m	Frequency (MHz)
2nd	700ml center	16.8	4,916
3rd	300ml side	12.5	7,297
4th	700ml center	0	9,850

Note : 2nd and 3rd Harmonics : The maximum value with the load condition such as 300ml or 700ml water in the center or side position

Frequency (MHz)	2000 - 2400	700ml center
	2500 - 4000	700ml center
	4000 - 8000	300ml or 700ml water in the center or side position
	8000 - 10000	700ml center

None of higher FIS value than those shown in the above table existed in the following frequency band.

Measurement equipment (Refer Page-4)
 Spectrum analyzer : HP8562A
 Antenna : CA-S, CA-M and CA-X

5. Frequency sweeping

Line voltage (V)	150	2,457
	132	2,456
	120	2,458
	108	2,457
	96	2,456
Frequency (MHz)		

4-2 The variation of frequency for line voltage variation (Load : 1000ml water center)

Volume of water (ml)	1000	2,454
	800	2,458
	600	2,459
	400	2,456
	200	2,459
Frequency (MHz)		

4-1 The variation of frequency for load variation (Load : 1000ml water center)

Measurement equipment (Refer Page-4)
 Interference analyzer : EMC-60 MK-IV (Bandwidth : 5MHz)
 Antenna : CA-S, CA-M and CA-X

4. Frequency measurements

No.	Equipment Name	Model Name & Manufacturer	Specification	Last Calibration Date	Calibration Frequency
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		(2) CA-M SER : 20-15 POLARAD	4.19 to 7.74 GHz		
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