

EXHIBIT F: TEST SETUP PHOTOS

检测报告编号 : 2006J10-30-112063
Test Report series No.

Test photograph



3.2 RF output power measurement

A beaker of 1500ml water was placed in the center of the oven. The oven worked at maximum output power for 120 seconds. The temperature of the water before and after this operation was measured and recorded. Redo above test three times and get the average.

Model Number	Test	Temperature before test ()	Temperature after test ()	T ()
NN-SD797	1	10.1	30.2	20.1
	2	9.9	29.7	19.8
	3	10.4	29.2	18.8
Temp. Rise= (Temperature after test- Temperature before test)/3=19.57				
RF output power=[(4.187 joules/Cal) x (Volume in ml) x (Temp. Rise)] / Time in seconds =(4.187x1500x19.57)/120=1024.24W				

The measured output was found to be above 500W. Therefore, in accordance with section 18.305 of subpart C, the measured out-of-band emissions were compared to the $25 \times \text{SQRT}(\text{power}/500) [\mu\text{V}/\text{m}]$ @ 300m limit.

Test instrumentation

Name/Model	Number
Programmable AC Power Source CIF-5000FP	979824
Warranty Label testo 106-T1	63236

3.3 Frequency measurement

Following the above test, a beaker of 1500ml water was placed in the center of the oven. The oven worked at maximum power.

3.3.1 Frequency vs Line voltage variation test

The operating frequency was monitored as the input voltage was varied between 80 to 125 percent of the nominal rating. The results of this test are as follows. Line voltage varied from 96Vac to 150Vac.

Model Number	Maximum frequency variation (96~150V/1500ml water load)
NN-SD797	Horizontal: 2439.25~2473.38MHz Vertical: 2444.55~2471.71MHz

3.3.2 Frequency vs Load variation test

Initial load: 1500ml. Load at completion of test: 300ml.

Model Number	Maximum frequency variation (1500~300ml water load/ 120V)
NN-SD797	Horizontal: 2441.17~2464.24MHz Vertical: 2445.03~2471.71MHz

Test instrumentation

Name/Model	Number
Double-Ridged Waveguide Horn Antenna HF 906	容-001-04
Spectrum Analyzer R3162	容-001-33

Test photograph



3nd.Harmonic (1050mlcorner)	7327.4	70.09	31.95214365	Horizontal	35.78	3.827856352
3nd.Harmonic (450mlcentre)	7327.4	67.47	23.63197399	Vertical	35.78	12.14802601
3nd.Harmonic (450mlcentre)	7319.7	69.13	28.60882361	Horizontal	35.78	7.171176394
3nd.Harmonic (450mlcorner)	7326.2	66.56	21.28139046	Vertical	35.78	14.49860954
3nd.Harmonic (450mlcorner)	7321.1	68.42	26.36331386	Horizontal	35.78	9.416686142
4th.Harmonic (1050mlcentre)	9801.6	57.55	7.542233958	Vertical	35.78	28.23776604
4th.Harmonic (1050mlcentre)	9803.2	58.07	8.007556285	Horizontal	35.78	27.77244371
5th.Harmonic (1050mlcentre)	12246.1	66.33	20.7252606	Horizontal	35.78	15.0547394
5th.Harmonic (1050mlcentre)	12254.2	61.27	11.57444032	Vertical	35.78	24.20555968

Test instrumentation

Name/Model	Number
EMI Test Receiver ESI 26	容-001-01
Double-Ridged Waveguide Horn Antenna HF 906	容-001-04

Test photograph



3.5 Safety check

Model No.: NN-SD797	
At 275ml water load was placed in the center of the oven. The temperature of the water is 20 degree. The oven worked at maximum power. The radiation emission was moved at 2.5cm/s around the oven.	
Safety check	<p>Left side: 0.0923mW/cm² Front side: 0.0798mW/cm² Top side: 0.0958mW/cm² Right side: 0.1127mW/cm² Back side: 0.1432mW/cm² Maximum: Back side: 0.1432mW/cm²</p>

Test instrumentation

Name/Model	Number
E-Filed Sensor FMR-300	2244/31

Test photograph



Test instrumentation

Name/Model	Number
EMI TEST RECEIVER ESCS 30	容-003-01
ARTIFICIAL MAINS NETWORK ESH2Z5	容-003-05

Test photograph



Remark: /

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