### FCC CFR47 PART 18 SUBPART C

## ISM EQUIPMENT

### **TEST REPORT**

#### **FOR**

#### MICROWAVE OVEN

Model: P70B20(X)III-(Y) (Testing case: P70B20APIII-TK)

Magnetron Model: Galanz, M24FA-410A

**Brand Name: Galanz** 

**Test Report No.: 12CA04093-01** 

**FCC ID: UHW7020005** 

### **Prepared for**

GUANGDONG GALANZ ENTERPRISE (GROUP)CO.,LTD.

25 RONGGUI NAN ROAD, RONGGUI SHUNDE, GUANGDONG

P.R.C.528305

#### **ACCORDING TO**

FCC PART 18 INDUSTRIAL, SCIENTIFIC AND MEDICAL EQUIPMENT

&

FCC/0ST MP-5(1986) FCC METHODS OF MEASUREMENTS OF RADIO NOISE EMISSION FROM INDUSTRIAL, SCIENTIFIC AND MEDICAL EQUIPMENT

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Reviewed By: Yanhan Lu		
QC Manager: Valley.Wang		
Test Report Released By	_06/04/2012	
Name	Date	

# **List Attached Files**

<b>Exhibit Type</b>	File Description	File Name
		UHW7020005
Test report	Test report	-Test report .pdf
		UHW7020005
<b>Operation Description</b>	<b>Operational Description</b>	-Operational description .pdf
		UHW7020005
<b>External Photos</b>	<b>External Photos</b>	-External photos .pdf
		UHW7020005
<b>Internal Photos</b>	<b>Internal Photos</b>	-Internal photos .pdf
		UHW7020005
Block Diagram	Block Diagram	-Block diagram .pdf
		UHW7020005
<b>Schematics Diagram</b>	<b>Schematics Diagram</b>	-Schematics .pdf
		UHW7020005
ID Label/ Location	ID Label/ Location	-label & location .pdf
		UHW7020005
User Manual	<b>User Manual</b>	-User manual .pdf
		UHW7020005
<b>Test setup Photos</b>	<b>Test setup Photos</b>	-Test setup photos .pdf
		UHW7020005
Part List	Part List	- Part list .pdf

### **Test Location**

Tests performed at Galanz in a certified Ansi Semi-Anechoic Chamber and Shielded Room.

Test Site Location EMC Laboratory Guangdong Galanz Enterprises Co., Ltd 25 South Ronggui Rd., Shunde, Foshan, Guangdong, China.

Tel: 86-757-23612785 Fax: 86-757-23612537

In compliance with the site registration requirements of section 2.948 of the FCC rules to perform EMI measurements for the general public.

FCC Registration Number: 580210

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### **Opinions and Interpretations**

This test report relates to the above mentioned equipment under test (EUT). Without permission of EMC Laboratory of Guangdong Galanz Enterprises Co., Ltd, this report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark on this or similar products. The manufacturer has sole responsibility of continued compliance of the device.

### **Statement of Measurement Uncertainty**

The data and results referenced in the document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities that can account for a nominal measurement error. Furthermore, component and process variability of devices similar to that tested may result in additional deviation.

### **Administrative Data**

Test Sample Microwave oven
Model Numbers P70B20(X)III-(Y)
Model Tested P70B20APIII-TK

**Brand Name** Galanz

Date Tested March 16, 2012

**Applicant** Guangdong Galanz Enterprises Co., Ltd.

25 ronggui nan Rd., Shunde, Foshan, Guangdong, China

Telephone 86-757-23612785 Fax 86-757-23612537

Manufacturer Guangdong Galanz Enterprises Co., Ltd.

25 ronggui nan Rd., Shunde, Foshan, Guangdong, China

### **EUT DESCRIPTION**

Guangdong Galanz Enterprises Co., Ltd. Model tested P70B20APIII-TK (Refer to the EUT in this report) is a Microwave Oven.

### **Specifications:**

Power consumption	120Vac 60Hz, 1050W(Microwave)
Output	700W
Operation frequency	2450Hz
Magnetron brand	Galanz
Magnetron number	M24FA-410A
Outside dimensions(HxWxD)	10 9/16×18 10/16×12 13/16 in.
Cavity dimensions(HxWxD)	8 11/16×12 3/8×11 9/16 in.
Capacity	0.7cu.ft
Cooking uniformity	Turntable System
Net weight	Approx. 23.1 lb.

## **Type of Deriver**

P70B20(X)III-(Y)model designations:

P: With Microwave functions only.

70: denote the output power is 700W

B20: denote different capacity in 20 liters.

Variable (X) may be L,P,SL,SP ,AL,AP,ASL,ASP ,EL,EP, ESL,ESP

"L" is pull-out type door, "P" is push-button type door. When there is no letter before "L" and "P", denotes mechanical control model; When there are "A" or "E" denote the electrical control model. "S" denotes stainless steel cavity; When there is without "S" before "L" or "P", denotes the epoxy painted cavity.

Variable (Y) may compose by one to six characters from A to Z and/or numbers from 0 to 9. It represents the differences of the appearance.

## **Test Summary**

The Electromagnetic Compatibility Requirements on model tested P70B20APIII-TK for this test is stated below. All results listed in this report relate exclusively to this above mentioned model as the Equipment under Test. This report confers no approval or endorsement upon any other component, host or sub-system used in the test set-up

	<b>Emission Tests</b>				
Specifications	Description	Test results	Test point	Remark	
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4:2003	Radiation Hazard Measurement	Passed	Enclosure	Attachment 1	
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4:2003	Input Power Measurement	Passed	AC Input Port	Attachment 2	
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4:2003	RF Output Power Measurement	Passed	EUT	Attachment 3	
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4:2003	Operating Frequency Measurement	Passed	EUT	Attachment 4	
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4:2003	Conducted Emission	Passed	AC Input Port	Attachment 5	
FCC Part 18:2004 FCC/OST MP-5:1986 ANSI C63.4:2003	Radiated Emission	Passed	Enclosure	Attachment 6	

#### **Load for Microwave Ovens**

For all measurements the energy developed by the oven was absorbed by a dummy load consisting of a quantity of tap water in a beaker. If the oven was provided with a shelf or other utensil support, this support was in its initial normal position. For ovens rated at 1000 watts or less power output, the beaker contained quantities of water as listed in the following subparagraphs, for ovens rated at more than 1000 watts output, each quantity was increased by 50% for each 500 watts or fraction thereof in excess of 1000 watts, additional beakers were used if necessary

- Load for power output measurement: 1000 milliliters of water in the beaker located in the center of the oven.
- Load for frequency measurement: 1000 milliliters of water in the beaker located in the center of the oven.
- load for measurement of radiation on second and third harmonic: Two loads, one of 700 and the other of 300 milliliters, of water are used, Each load is tested both with the beaker located in the center of the oven and with it in the right front corner.
- Load for all other measurements: 700 milliliters of water, with the beaker located in the center of the ovens

### **Equipment Modification**

Any modifications installed previous to testing by Guangdong Galanz Enterprises Co., Ltd will be incorporated in each production model sold or leased in United States

# **EUT Sample Photos for model**



Front view



Door open view



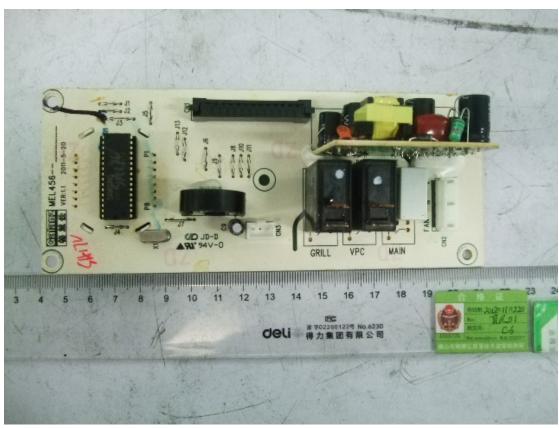
Rear View of EUT



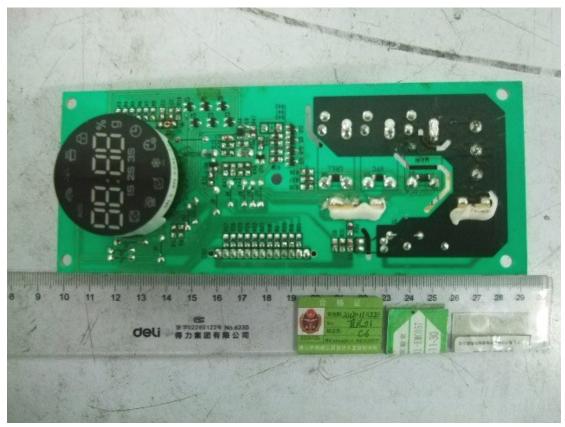
**Uncovered View from right side** 



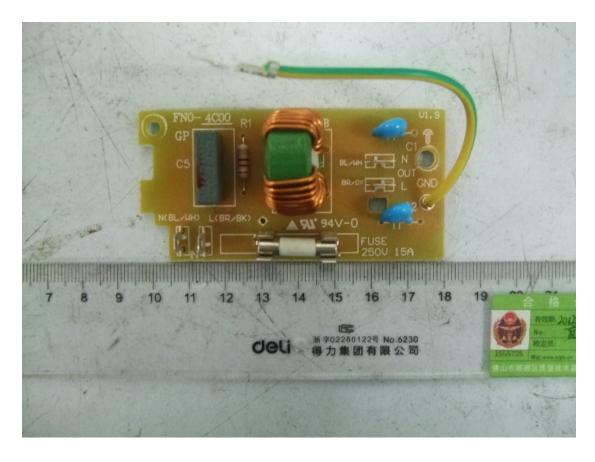
**Uncovered View from top side** 



Front view of Main board

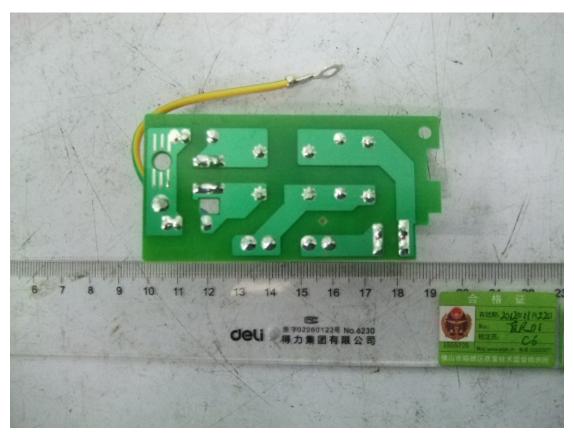


**Back view of Main board** 



Front View of AC power filter board

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Back of View AC power filter board

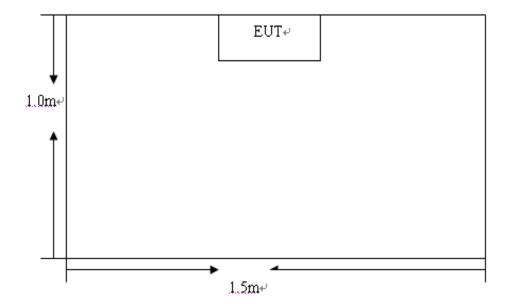


**View of Magnetron** 

# **Test System Details**

EUT					
Model Numbers	P70B20	P70B20(X)III-(Y)			
Model tested	P70B20	APIII-TK			
Description	Microw	ave Oven			
Manufacturer	Guangd	long Galanz I	Enterprises C	o., Ltd	
	Support Equipment				
	N/A				
		Cable D	escription		
Description	From	То	Length	Shielded	Ferrite
			Meters	Y/N	Y/N
Power cord	EUT	Plug	1.10	N	N

# **Configuration of Tested System**



## ATTACHMENT 1-RADIATION HAZARD TEST

Client: Guangdong Galanz Enterprises Co Ltd		Test Standard: FCC Part 18	
Model Numbers: P7	70B20(X)III-(Y)	<b>Product: Microwave Oven</b>	
Model Tested: P70B	320APIII-TK	<b>EUT Designation: Home or Office</b>	
Temperature: 20℃		Humidity: 51%R.H.	
ATM Pressure: 103.	.5kPa	Grounding: Through AC power cord	
<b>Tested By: Daomen</b>	Guan	Date of Test: March 16,2012	
Test Reference	ANSI C63.4: 2003, I	FCC/OST MP-5:1986	
<b>Test Procedure</b>	The EUT was set up according to the FCC MP-5 and FCC Part 18 for Radiation Hazard Measurement. The measurement was using a microwave leakage meter to measure the Radiation leakage in the as-received condition with the oven door closed. A 1000ml water load in a beaker was located in the center of the oven and the Microwave oven was set to maximum power. While the oven operating, the microwave meter will check the leakage and then record the maximum leakage		
Tested Range	N/A		
Test Voltage	120VAC/60Hz		
Results	There was no microwave leakage exceeding a power level of 0.21 mW/cm <sup>2</sup> observed at any point 5cm or more from the external surface of the oven.		
	A maximum of 1.0 mW/cm <sup>2</sup> is allowed in accordance with the applicable FCC standards. Hence, microwave leakage in the as-received condition with the oven door closed was below the maximum allowed.		
	The test results relate only to the equipment under test provided by client.		
Changes or Modifications	There were no modifications installed by Galanz test personnel		
M. Uncertainty	$0.01 \text{mW/cm}^2$		

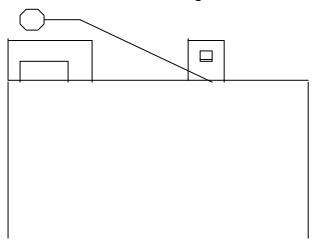
## **Test Equipment List**

Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
Equipment					
Microwave	HOLADAY	HI-1710	98370	2012-01-10	2013-01-10
Measurement					
System					

Note: All testing were performed using internationally recognized standard. All test instruments were calibrated and traceable to the National Institute of Standards and Technology.

## **Radiation Hazard Test Set-up**

Microwave Leakage Tester





**Radiation Hazard Test Setup** 

# ATTACHMENT 2-INPUT POWER MEASUREMENT

Client: Guangdong Galanz Enterprises Co Ltd		Test Standard: FCC Part 18	
CoLia			
Model Numbers: P'	70B20(X)III-(Y)	<b>Product: Microwave Oven</b>	
Model Tested: P70F	B20APIII-TK	<b>EUT Designation: Home or Office</b>	
<b>Temperature: 20℃</b>		Humidity: 51%R.H.	
ATM Pressure: 103	.5kPa	Grounding: Through AC power cord	
Tested By: Daomen	Guan	Date of Test: March 16,2012	
Test Reference	ANSI C63.4: 2003 , FC	C/OST MP-5:1986	
<b>Test Procedure</b>	1	cording to the FCC MP-5 and 18 for input power	
	measurement, The input power and current was measured using a power		
	analyzer. A 1000ml water load in a beaker was located in the center of the oven and the Microwave oven was set to maximum power, while the		
	oven is operating, use a voltmeter and an ampere-meter to test the AC		
	input voltage and currer	nt.	
Tested Range	N/A		
Test Voltage	120VAC/60Hz		
Results	Based on the measured input power, the EUT was found to be operating		
	within the intended specifications		
	The test results relate only to the equipment under test provided by client		
Changes or	There were no modifications installed by Galanz test personnel		
Modifications			
M. Uncertainty	±5W		

## **Test Data**

Input Voltage	Input Current	Measured Input	Rated input
Vac/Hz	amps	power(watt)	power( watt )
120.0V/60Hz	9.627	1081	1050

## **Test Equipment List**

Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
equipment					
Power Meter	Ainuo	AN8720P	058704076	2011-07-20	2012-07-19

Note: All testing were performed using internationally recognized standard. All test instruments were calibrated and traceable to the National Institute of Standards and Technology.



**Input Power Test Setup** 

## ATTACHMENT 3-RF OUTPUT POWER MEASUREMENT

Client: Guangdong Galanz Enterprises Co Ltd		Test Standard: FCC Part 18	
Model Numbers: P	70B20(X)III-(Y)	<b>Product: Microwave Oven</b>	
Model Tested: P70F	B20APIII-TK	<b>EUT Designation: Home or Office</b>	
<b>Temperature: 20℃</b>		Humidity: 51%R.H.	
ATM Pressure: 103	.5kPa	Grounding: Through AC power cord	
Tested By: Daomen	Guan	Date of Test: March 16,2012	
Test Reference	ANSI C63.4: 2003 , FC	C/OST MP-5:1986	
Test Procedure	The EUT was set up according to the FCC MP-5 and 18 for RF power measurement, The Caloric method was used to determine maximum RF output power.  1) A 1000ml water load in a beaker is located in the center of the oven.  2) Measure and record the initial temperature of the 1000ml water load.  3) Start and keep the oven operating at maximum output power for 123 seconds, the additional 3 seconds is to allow for the magnetron start up delay.  4) At the end of the 123 seconds, measure and record the final temperature of the 1000ml water load.  5) Calculate the RF output power  RF Output Power (W) = 4.2 x 1000 x (Final Temp – Initial Temp) / 120		
Tested Range	N/A		
Test Voltage	120VAC/60Hz		
Results	RF output power =682.5W  The test results relate only to the equipment under test provided by client		
Changes or Modifications	There were no modifications installed by Galanz test personnel.		
M. Uncertainty	±0.3℃		

### **Test Data**

Quality	of	Starting	Final	Elapsed time	RF output
water(ml)		temperature(°C)	temperature(°C)	(seconds)	power(watt)
1000		19.2	38.7	123	682.5

## **Test Equipment List**

Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
equipment					
Digital thermometer	TES	TES1310	021108782	2011-05-20	2012-05-19
Electronic scale	DING JIAN	30Kg	862399	2012-01-13	2013-01-12
Power Meter	Ainuo	AN8720P	058704076	2011-07-20	2012-07-19

Note: All testing were performed using internationally recognized standard. All test instruments were calibrated and traceable to the National Institute of Standards and Technology.



RF Output Power Test Set-up

## ATTACHMENT 4-OPERATING FREQUENCY MEASUREMENT

Client: Guangdong Co Ltd	<b>Galanz Enterprises</b>	Test Standard: FCC Part 18	
Model Numbers: P	70B20(X)III-(Y)	Product: Microwave Oven  EUT Designation: Home or Office  Humidity: 54%R.H.	
Model Tested: P701	B20APIII-TK		
Temperature: 22℃			
ATM Pressure: 106	.0kPa	Grounding: Through AC power cord	
Tested By: Daomen	Guan	Date of Test: March 16,2012	
Test Reference	ANSI C63.4: 2003 , FC	C/OST MP-5:1986	
Test Procedure	The EUT was set up according to the FCC MP-5 and 18 for Operation Frequency measurement  1) The Variation of frequency with time  The operating frequency was measured using a spectrum analyze starting with EUT at room temperature, a 1000ml water load in a break was located in the center of the oven, set a spectrum analyzer was antenna at 3 meters distance from the oven and oven was operated maximum output power, The fundamental operating frequency was monitored until the water load was reduced to 20 percent of the origin load.  2) The variation of frequency with Line Voltage.  The operating frequency was measured using a spectrum analyzer. The operating frequency was measured using a spectrum analyzer. The operating frequency was measured using a spectrum analyzer. The operating frequency was monitored as the input voltage was operating frequency was monitored as the input voltage was monitored as the input voltage was monitored.		
Tested Range	2450±50MHz		
Test Voltage	120VAC/60Hz		
Results	Refer to following pages for details of the variation in operating frequency with time & line voltage measurement		
Changes or Modifications			
M. Uncertainty	Freq. ±10kHz		

## Test data

## **Variation in Operating Frequency with Time**

Minimum Frequency(MHz)	Maximum Frequency(MHz)		
2412.6	2485.0		

### **Variation in Operating Frequency with Line Voltage**

Minimum Frequency(MHz)	Maximum Frequency(MHz)			
2409.2	2484.2			
Note: Line voltage varied from 96Vac to 150Vac				

## **Test Equipment List**

Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
equipment					
Horn Antenna	ETS	3115	6587	2010-08-02	2012-08-02
Spectrum Analyzer	R&S	FSP30	100755	2011-11-21	2012-11-21
3m Anechoic chamber	ETS	RFD-F-100	3187	2011-05-27	2013-05-27

Note: All testing were performed using internationally recognized standard. All test instruments were calibrated and traceable to the National Institute of Standards and Technology.



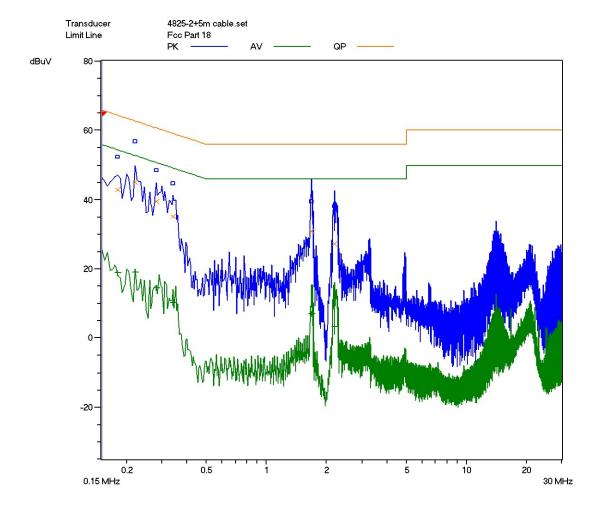
**Operating Frequency Test Set-up** 

## ATTACHMENT 5-CONDUCTED EMISSION TEST RESULTS

Client: Guangdong Galanz Enterprises Co Ltd  Model Numbers: P70B20(X)III-(Y)  Model Tested: P70B20APIII-TK		Test Standard: FCC Part 18	
		Product: Microwave Oven	
		<b>EUT Designation: Home or Office</b>	
Temperature: 22℃		Humidity: 54%R.H.	
ATM Pressure: 106	.0kPa	Grounding: Through AC power cord	
Tested By: Daomen	Guan	Date of Test: March 16,2012	
Test Reference	ANSI C63.4: 2003 , FCC/OST MP-5:1986		
Test Procedure	The EUT was set up according to the guideline of ANSI C63.4:2003 & FCC MP-5 for conducted emission, The measurement was using a AMN on each line and an EMI receiver peak scan was made at the frequency measurement range, the six highest significant peak were then marked, and these signals were then quasi peaked and averaged. The frequency range investigated was from 150kHz to 30MHz		
Tested Range	150kHz to 30MHz		
Test Voltage	120VAC/60Hz		
Results	The EUT meets the requirements of test reference for conducted Emission, The margin of Quasi-peak is $14.0 dB \mu V$ on line L and Average is $30.9 dB \mu V$ on line N.		
Changes or Modifications	There were no modifications installed by Galanz test personnel.		
M. Uncertainty	±2.5dB		

CE-L	res
CE	L

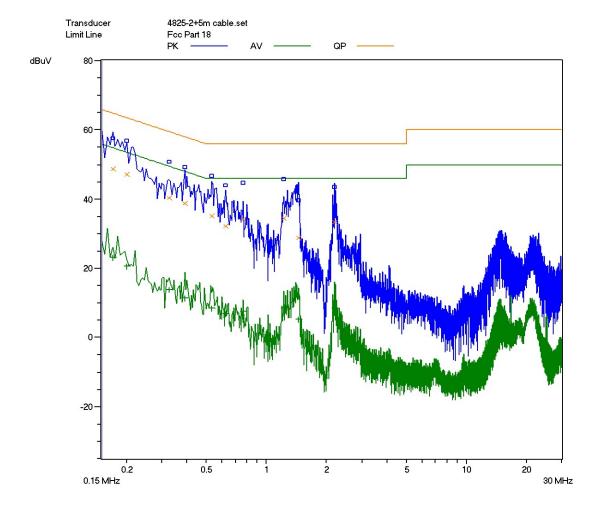
	CE L
	Microwave Oven
	Galanz
	Full Power Microwave
e(s)	Range 1
	150 kHz
	30 MHz
	5 kHz
	Auto
(Pre)	AV CISPR
(Pre)	9 kHz
(Pre)	10 ms
(Final)	QP
(Final)	9 kHz
(Final)	1 s
(Final)	20
	(Pre) (Pre) (Pre) (Final) (Final) (Final)



**Line L Conducted Emission Graph** 

CE-N	N.res
CE	N

Title		CE	N
Туре		Micro	wave Oven
Manufacturer		Galar	z
Condition		Full P	ower Microwave
Frequency Range	e(s)		Range 1
Start Frequency			150 kHz
Stop Frequency			30 MHz
Step Frequency			5 kHz
Attenuator			Auto
Detector	(Pre)		AV CISPR
IF Bandwidth	(Pre)		9 kHz
Measure Time	(Pre)		10 ms
Detector	(Final)		QP
IF Bandwidth	(Final)		9 kHz
Measure Time	(Final)		1 s
Sub Ranges	(Final)		20



Line N Conducted Emission Graph

## **Test Data**

Lina	Frequency	Corrected	Corrected	QP limit	AV limit
Line	(MHz)	Reading(QP)	Reading(AV)	dBuV	dBuV
L	0.2240	48.7	19.4	62.7	52.7
L	0.2862	42.6	15.7	60.6	50.6
L	1.6928	31.2	8.5	56.0	46.0
N	0.1784	50.1	23.7	64.6	54.6
N	0.2488	47.6	20.7	61.8	51.8
N	1.2084	35.2	8.9	56.0	46.0

## **Test Equipment List**

Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
equipment					
EMI Receiver	SCHAFFNER	SMR4503	44	2011-07-08	2012-07-08
LISN	ETS	4825/2	1161	2011-07-08	2012-07-08
Shielding Room	ETS	RFD-100	3181	2011-05-18	2012-05-18

Note: All testing were performed using internationally recognized standard. All test instruments were calibrated and traceable to the National Institute of Standards and Technology.



**Conducted Emission Test Set-up** 

## ATTACHMENT 6-RADIATED EMISSION TEST RESULTS

Client: Guangdong Co Ltd	Galanz Enterprises	Test Standard: FCC Part 18		
Model Numbers: P70B20(X)III-(Y)		Product: Microwave Oven		
Model Tested: P70B20APIII-TK		<b>EUT Designation: Home or Office</b>		
<b>Temperature: 22℃</b>		Humidity: 54%R.H.		
ATM Pressure: 106.0kPa		Grounding: Through AC power cord		
Tested By: Daomen	Guan	Date of Test: March 16,2012		
Test Reference	ANSI C63.4: 2003, FC	C/OST MP-5:1986		
Test Procedure	ANSI C63.4: 2003, FCC/OST MP-5:1986  The EUT was set up according to the guidelines of ANSI C63.4: 2003 & FCC MP- 5 for radiated emissions. Microwave oven was placed on a 0.8m*1.2m nonconductive table. The top of the table is 0.8 m above the ground. The table is placed on a flush mounted metal turntable.  An EMI receiver peak scan was made at the frequency measurement range (pre- scan) in an Anechoic chamber. Signal discrimination was then performed and the significant peaks marked. All data was recorded in Quasi-peak detection mode from 30 MHz to 1GHz and average detector mode above 1GHz.  The following data lists the significant emission frequencies, measured levels, correction factors (including cable and antenna correction factors), and the corrected readings against the limits. Explanation of the Correction Factor are given as follows:  FS= RA + AF + CF - AG  Where: FS = Field Strength  RA = Receiver Amplitude  AF = Antenna Factor  CF = Cable Attenuation Factor  AG = Amplifier Gain			
Tested Range Test Voltage	30MHz to 24.5GHz 120VAC/60Hz			
Results	The EUT meets the requirements of test reference for Radiated Emission, The margin is 15.13 dBuV/m at 7.36040 GHz of AV detector on Vertical polarization.			
Changes or Modifications	There were no modifications installed by Galanz test personnel.			
M. Uncertainty	±3.2dB			

**Test Data** 

30MHz-1GHz					
Frequency (MHz)	Antenna Polarization (V/H)	3 Meters Corrected QP reading (dBµV/m)	Delta QP (dBµV/m)	3 Meters Limits (dBµV/m)	
54.6420	V	50.70	18.61	69.31	
200.0640	V	39.80	29.51	69.31	
274.2080	V	38.60	30.71	69.31	
192.4200	Н	40.20	29.11	69.31	
267.1860	Н	48.60	20.71	69.31	
564.2840	Н	37.80	31.51	69.31	

Note: All readings are quasi-peak unless stated otherwise, using a bandwidth of  $120 \mathrm{kHz}$ .

1GHz-25GHz				
Frequency	Antenna	3 Meters	Delta AV	3 Meters
(GHz)	Polarization	Corrected AV	(dBµV/m)	Limits
	(V/H)	reading		(dBµV/m)
		(dBµV/m)		
2.18710	V	34.82	34.49	69.31
4.90946	V	53.39	15.92	69.31
7.36040	V	54.18	15.13	69.31
8.03602	V	48.27	21.04	69.31
2.20772	Н	34.59	34.72	69.31
4.34214	Н	40.12	29.19	69.31
4.90788	Н	47.27	22.04	69.31
7.37408	Н	53.67	15.64	69.31

**Comment: None** 

Note: All reading are average unless stated otherwise, using PK detector

RBW=1MHz,VBW=10Hz

## **Test Equipment List**

Test	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
equipment					
Broadband Antenna	ETS	3142C	00042672	2010-09-25	2012-09-25
Horn Antenna	ETS	3115	6587	2010-08-02	2012-08-02
Band-pass Filter	Micro-Tronic	BRM50702	030	2011-11-021	2012-11-21
EMI Receiver	SCHAFFNER	SMR4503	44	2011-07-08	2012-07-08
Spectrum Analyzer	R&S	FSP30	100755	2011-11-21	2012-11-21
3m Anechoic chamber	ETS	RFD-F-100	3187	2011-05-27	2013-05-27

Note: All testing were performed using internationally recognized standard. All test instruments were calibrated and traceable to the National Institute of Standards and Technology.



Radiated Emission Test Setup (30-1000MHz)



Radiated Emission Test Setup (1-25GHz)

The End