

EMI Test Report

On Model Name: Microwave oven

Model Numbers: P70D20X-Z

Brand Names: Galanz

FCCID Number: UHW7020001

Prepared for Guangdong Galanz Enterprises Co., Ltd.

According to

FCC Part 18

Industrial, Scientific and Medical Equipment

FCC/OST MP-5(1986)

FCC methods of measurements of radio noise emission from industrial, scientific and medical equipment

Test Report #: GUA-0802-0640-FCCID

Prepared by: Ravin Su

Reviewed by: Harry Zhao

QC Manager: Paul Chen

Test Report Released by:

2008, Mar 11

Paul Chen

Date

List Attached Files

Exhibit Type	File Description	File Name	
Test Report	Test Report	UHW7020001	
		_Test report.pdf	
Operation	Technical Description	UHW7020001	
Description		_operationdescription.pdf	
External Photos	External Photos	UHW7020001	
		_External Photos	
Internal Photos	Internal Photos	UHW7020001	
		_Internal Photos	
Block Diagram	Block Diagram	UHW7020001	
		_Block Diagram.pdf	
Schematics	Circuit Diagram	UHW7020001	
		_Schematics.pdf	
ID Label/Location	Label Artwork and Location	UHW7020001	
		_Label & Location.pdf	
User Manual	User Manual	UHW7020001	
		_User Manual.pdf	
Test setup photos	Test setup photos	UHW7020001	
		_Test Setup Photos	

Test Location

Tests performed in a Certified ANSI Semi-Anechoic Chamber and Shielded Room.

Test Site Location: Guangdong Galanz Enterprises Co., Ltd

25 South Ronggui Rd., Shunde, Foshan,

Guangdong, China.

Tel: 86-757-23612785

Fax: 86-757-23612537

Registration Number: 580210

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Opinions and Interpretations

This test report relates to the abovementioned equipment under test (EUT). Without the permission of EMC Compliance Management Group Test Lab this test 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 : P70D20X-Z

Model Tested : P70D20AL-D4

Brand Name : Galanz

Date Tested : 2006, April 26th

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. models tested P70D20AL-D4 (referred to the EUT in this report) is a Microwave Oven.

Specifications:

Model Number:	P70D20AL-D4
Power Consumption:	120V~60Hz, 1200W
Output:	700W
Operation Frequency:	2450MHz
Magnetron Manufacturer	Galanz
Magnetron Number	M24FA-410A
Outside Dimensions (H×W×D):	9 5/8×17 13/16×13 11/16 inches.
Outside Dimensions (H×W×D):	8 11/16×12 3/8×12 3/8 inches.
Oven Capacity:	0.7 cu.ft.
Cooking Uniformity:	Turntable System (₱9 5/8")
Net Weight:	Approx.23.8lbs.

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Prepared by EMC Compliance Management Group

Type of Deriver

P70D20X-Z model designations:

P: Denotes the Microwave function.
70: Denotes the output power is 700W.
D: Denotes the type of the cavity

20: Denotes capacity in 20 liters;

X may be

L,P,J,SL,SP,SJ,TL,TP,TJ,AL,AP,AJ,ASL,ASP,ASJ,ATL,ATP,ATJ,EL,EP,EJ,ESL, ESP,ESJ,ETL, ETP,ETJ,ML,MP,MJ,MSL,MSP,MSJ,MTL,MTP,MTJ.

"L" and "J" is pull-out type door, P is push-button type door. When there is no letter before "L", "P" and "J", denotes mechanical control model; When there is "A", "E" or "M" denote the electrical control model. "S" denotes stainless steel cavity; "T" denotes the gray cavity; When there is neither "S" nor "T" before "L", "P" or "J", denotes the epoxy painted cavity.

Z may be any combination of one to five letters and/or numbers representing cosmetic differences.

Test Summary

The Electromagnetic Compatibility requirements on model tested P70D20AL-D4 for this test are 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 subsystem used in the test set-up.

Emission Tests					
Specifications	Description	Test Results	Test Point	Remark	
FCC Part 18:2004 FCC/OST MP- 5:1986 ANSI C63.4: 2003	Radiation Hazard Measurement	Passed by 0.14mW/cm ²	EUT	Attachment 1	
FCC Part 18:2004 FCC/OST MP- 5:1986 ANSI C63.4: 2003	Input Power Measurement	Refer to Attachment2	EUT	Attachment 2	
FCC Part 18:2004 FCC/OST MP- 5:1986 ANSI C63.4: 2003	RF Output power Measurement	Refer to Attachment3	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 by 10.09dB of QP Passed by 28.49dB of AVE	AC Input Port	Attachment 5	
FCC Part 18:2004 FCC/OST MP- 5:1986 ANSI C63.4: 2003	Radiated Emission	Passed by 15.2dB of AVE	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 tag 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 1000watts or less power output, the beaker contained quantities of water as listed in the following subparagraphs. For ovens rated at more than 1000watts output, each quantity was increased by 50% for each 500watts or fraction thereof in excess of 1000watts. 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 oven.

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.

There were no modifications installed by EMC Compliance Management Group (China) test personnel.

EUT Sample Photos for model P70D20AL-D4



Front & Top View



Rear View

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Door opened View

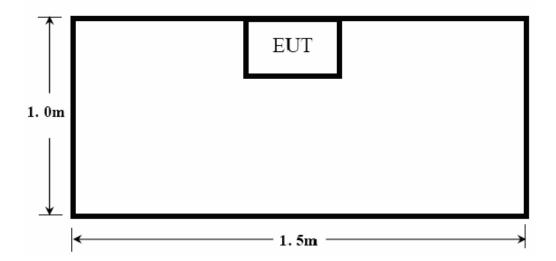


Bottom View

Test System Details

EUT					
Model Numbers:	P70D20X-Z	7			
Model Tested:	P70D20AL	-D4			
Description:	Microwave	Oven			
Manufacturer:	Guangdong Galanz Enterprises Co., Ltd.				
	S	upport Equip	nent		
		N/A			
	C	able Descrip	otion		
Description	From	То	Length (Meters)	Shielded (Y/N)	Ferrite (Y/N)
Power Cable	EUT	Plug	1.10	N	N

Configuration of Tested System



ATTACHMENT 1 - RADIATION HAZARD TEST

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	P70D20X-Z	PRODUCT:	Microwave Oven	
MODEL TESTED:	P70D20AL-D4	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	22℃	HUMIDITY:	55%RH	
ATM PRESSURE:	101 kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Ivan Wen	DATE OF TEST:	2006, April 26	
TEST REFERENCE:	ANSI C63.4: 2003, FCC/OS	ST MP-5:1986		
TEST PROCEDURE:	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 0.14mW/cm² observed at any point 5cm or more from the external surface of the oven. A maximum of 1.0mW/cm² 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 modificatio (China) test personnel.	ns installed by EMC Con	npliance Management Group	
M. UNCERTAINTY:	0.0001 mW/cm ²			

Test Equipment List:

Test Equipment	Manufacturer/ Model	Serial No.	Last Cal.	Cal. Due
Field Monitor	AR / FM5004	A0304252	05/26/05	05/25/07
Electric Field Probe	AR / FP6001	A0304302	03/16/05	03/15/07

SIGNED BT.		NEER	REVIEWED B1.	SENIOR ENGINEER
SIGNED BY:	Lun	ian Wen	REVIEWED BY:	Hayshas



Radiation Hazard Test Set-up

ATTACHMENT 2 - INPUT POWER MEASUREMENT

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	P70D20X-Z	PRODUCT:	Microwave Oven	
MODEL TESTED:	P70D20AL-D4	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	22℃	HUMIDITY:	55%RH	
ATM PRESSURE:	101 kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Ivan Wen	DATE OF TEST:	2006, April 26	
TEST REFERENCE:	ANSI C63.4: 2003, FCC/OS	ST MP-5:1986		
TEST PROCEDURE:	The EUT was set up according to the FCC MP-5 and FCC Part 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 ampmeter to test the AC input voltage and current.			
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 Modifications:	There were no modifications installed by EMC Compliance Management Group (China) test personnel.			
M. UNCERTAINTY:	± 5W			

Test Result:

Input Voltage (Vac/Hz)	Input Current (amps)	Measured Input Power (watts)	Rated Input Power (watts)
120V/60Hz	10.54	1152	1200

Test Equipment List:

Test Equipment	Manufacturer/ Model	Serial No.	Last Cal.	Cal. Due
Power Frequency Test System	QINGZHI / 8715B	870203197	04/22/05	04/21/07

SIGNED BY:	Lian	Wen	REVIEWED BY:	Hayshas
_	ENGINEE	R	_	SENIOR ENGINEER



Input Power Test Set-Up

ATTACHMENT 3 - RF OUTPUT POWER MEASUREMENT

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18	
MODEL NUMBERS:	P70D20X-Z	PRODUCT:	Microwave Oven	
MODEL TESTED:	P70D20AL-D4	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	22 ℃	HUMIDITY:	55%RH	
ATM PRESSURE:	101 kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Ivan Wen	DATE OF TEST:	2006, April 26	
TEST REFERENCE:	ANSI C63.4: 2003, FCC/OS	ST MP-5:1986		
TEST PROCEDURE:	The EUT was set up according to the FCC MP-5 and FCC Part 18C for RF output power Measurement. The Caloric Method was used to determine maximum RF output power. The initial temperature of the water load was measured. A 1000ml water load in a beaker was located in the center of the oven. The oven was operated at maximum output power for 120 seconds, the temperature of the water was re-measured. RF Output Power = (4.2joules/calorie)(volume in milliliters)(temperature rise) / (time in seconds) RF Output Power = 4.2 joules/calorie × 1000 × (Final Temp – Initial Temp) / 120			
TESTED RANGE:	N/A			
TEST VOLTAGE:	120VAC / 60Hz			
RESULTS:	RF Output Power = 672watts			
	The test results relate only to the equipment under test provided by client.			
Changes or Modifications:	There were no modifications installed by EMC Compliance Management Group (China) test personnel.			
M. UNCERTAINTY:	± 0.3℃			

Test Result:

Quality of Water (ml)	Starting Temperature (℃)	Final Temperature (℃)	Elapsed Time (Seconds)	RF Output Power (watts)
1000	23.1	42.3	120	672

Test Equipment List:

Test Equipment	Manufacturer/ Model	Serial No.	Last Cal.	Cal. Due
Data Acquisition	Agilent 34970A	MY44003367	03/17/05	03/16/07

SIGNED BY:	Llan	Wen	REVIEWED BY:	Hangshas
	ENGIN	NEER		SENIOR ENGINEER



RF Output Power Test Set-Up

ATTACHMENT 4 - OPERATING FREQUENCY MEASUREMENT

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18			
MODEL NUMBERS:	P70D20X-Z	PRODUCT:	Microwave Oven			
MODEL TESTED:	P70D20AL-D4	EUT DESIGNATION:	Home or Office			
TEMPERATURE:	22 ℃	HUMIDITY:	55%RH			
ATM PRESSURE:	101 kPa	GROUNDING:	Through AC Power Cord			
TESTED BY:	Ivan Wen	DATE OF TEST:	2006, April 26			
TEST REFERENCE:	ANSI C63.4: 2003, FCC/OS	ST MP-5:1986				
TEST PROCEDURE:	The EUT was set up accor	rding to the FCC MP-5 an	d FCC Part 18 for Operating			
	1) The variation of frequency with time.					
	The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 1000ml water load in a beaker was located in the center of the oven. Set a spectrum analyzer with antenna at 3 meters distance form the oven and the oven was operated at maximum output power. The fundamental operating frequency was monitored until the water load was reduced to 20 percent of the original load.					
	2) The variation of frequency with Line Voltage.					
	The operating frequency was measured using a spectrum analyzer. The EUT was operated/warmed by at least 10 minutes of use with a 1000ml water load at room temperature at the beginning of the test. Then the operating frequency was monitored as the input voltage was varied between 80 and 125 percent of the nominal rating.					
TESTED RANGE:	2450 ± 50MHz					
TEST VOLTAGE:	120VAC / 60Hz					
RESULTS:	Please refer to following pages for details of the variation in operating frequency with time & line voltage measurement.					
	The test results relate only to the equipment under test provided by client.					
Changes or Modifications:	There were no modifications installed by EMC Compliance Management Group (China) test personnel.					
M. UNCERTAINTY:	Freq. ±10kHz					

Test result for Variation in Operating Frequency with Time:

Minimum Frequency (MHz)	Maximum Frequency (MHz)
2451.002	2451.804

Test result for Variation in Operating Frequency with Line Voltage:

Minimum Frequency (MHz)	Maximum Frequency (MHz)				
2451.002	2451.804				
Note: Line voltage varied from 96Vac to 150Vac.					

Test Equipment List:

Test Equipment	Manufacturer/ Model	Serial No.	Last Cal.	Cal. Due
Vltra Broadband Antenna	R&S / HL562	A0304224	06/05/05	06/04/07
Horn Antenna	R&S / HF906	A0304225	06/05/05	06/04/07
EMI Receiver	R&S / ESIB26	A0304218	06/10/05	06/09/07
5M Anechoic chamber	Albutross	A0304210	04/18/05	04/17/07

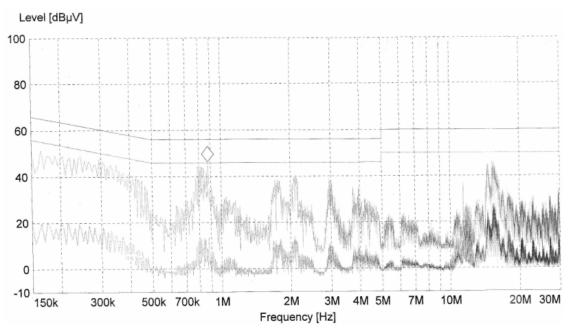
SIGNED BY:	Ivan Wen	REVIEWED BY:	Hayshas
_	ENGINEER		SENIOR ENGINEER



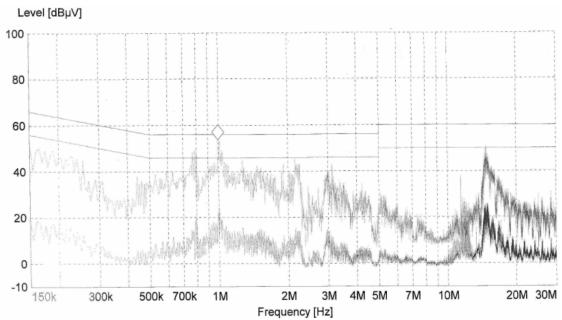
Operating Frequency Test Set-up

ATTACHMENT 5 - CONDUCTED EMISSION TEST RESULTS

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDERD:	FCC Part 18			
MODEL NUMBERS:	P70D20X-Z	PRODUCT:	Microwave Oven			
MODEL TESTED:	P70D20AL-D4	EUT DESIGNATION:	Home or Office			
TEMPERATURE:	22℃	HUMIDITY:	55%RH			
ATM PRESSURE:	101 kPa	GROUNDING:	Through AC Power Cord			
TESTED BY:	Ivan Wen	DATE OF TEST:	2006, April 26			
TEST REFERENCE:	ANSI C63.4: 2003, FCC/OS	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 emissions. 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 peaks 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 Emissions on line N by 10.09 dB of Quasi-Peak detector and by 28.49 dB of Average detector at 995KHz.					
	The test results relate only to the equipment under test provided by client.					
Changes or Modifications:	There were no modifications installed by EMC Compliance Management Group (China) test personnel.					
M. UNCERTAINTY:	±2.5 dB					



Line L Conducted Emission Graph



Line N Conducted Emission Graph

Test Data:

Line	Frequency [KHz]	Corrected QP Reading [dB _µ V]	Delta QP [dB]	Limit [dBµV/m]	Corrected AVE Reading [dB _µ V]	Delta AVE [dB]	Limit [dBµV/m]
L	295.00	42.16	-19.7	61.86	16.17	-35.69	51.86
L	875.00	43.91	-12.09	56.00	15.56	-30.44	46.00
L	15455.00	36.57	-23.43	60.00	18.99	-31.01	50.00
N	800.00	38.83	-17.17	56.00	9.15	-36.85	46.00
N	995.00	45.91	-10.09	56.00	17.51	-28.49	46.00
N	14750.00	41.49	-18.51	60.00	20.41	-39.59	60.00

Note: All reading are using a bandwidth of 9 kHz, with a 30 ms sweep time.

Test Equipment List:

Tost zajanpinone				
Test Equipment	Manufacturer/ Model	Serial No.	Last Cal.	Cal. Due
EMI Receiver	R&S / ESIB26	A0304218	06/10/04	06/09/06
LISN	R&S / ESH2-Z5	A0304221	06/10/04	06/09/06

SIGNED BY:	Lvan	Wen	REVIEWED BY:	Hayshas
	ENGINEER			SENIOR ENGINEER



Conducted Emission Test Set-up

ATTACHMENT 6 - RADIATED EMISSION TEST RESULTS

CLIENT:	Guangdong Galanz Enterprises Co., Ltd.	TEST STANDARD:	FCC Part 18	
MODEL NUMBERS:	P70D20X-Z	PRODUCT:	Microwave Oven	
MODEL TESTED:	P70D20AL-D4	EUT DESIGNATION:	Home or Office	
TEMPERATURE:	22 ℃	HUMIDITY:	55%RH	
ATM PRESSURE:	101 kPa	GROUNDING:	Through AC Power Cord	
TESTED BY:	Ivan Wen	DATE OF TEST:	2006, April 26	
TEST REFERENCE:	ANSI C63.4: 2003, FCC/OST MP-5:1986			
TEST PROCEDURE:	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 1m *1.5m nonconductive table. The top of the table is 1.0 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 (prescan) 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	or		
	AG = Amplifier Gain			
TESTED RANGE:	30MHz to 24.5GHz			
TEST VOLTAGE:	120VAC / 60Hz			
RESULTS:	The EUT meets the requirements of test reference for Radiated Emissions on Vertical polarization by 15.2 dB of Average detector at 4913.6 MHz.			
	The test results relate only to the equipment under test provided by client.			
CHANGES OR MODIFICATIONS:	There were no modifications installed by EMC Compliance Management Group (China) test personnel.			
M. UNCERTAINTY:	± 3.2 dB			

30MHz – 1GHz					
Frequency [MHz]	Antenna Polarization [V/H]	Corrected Reading [dB _µ V/m]	Delta, QP [dB]	3 Meters Limits [dBμV/m]	
102.20	Н	30.43	-38.81	69.24	
144.12	Н	40.19	-29.05	69.24	
165.76	Н	37.01	-32.23	69.24	
108.00	V	38.44	-30.80	69.24	
157.48	V	30.12	-39.12	69.24	
165.36	V	38.01	-31.23	69.24	

Note: All readings are quasi-peak unless stated otherwise, using a bandwidth of 120 kHz, with a 30 ms sweep time. A video filter was not used.

1GHz - 24.5GHz

Frequency [MHz]	Antenna Polarization [V/H]	Corrected Reading [dB _µ V/m]	Delta, AVE [dB]	3 Meters Limits [dBμV/m]
4902.00	Н	50.83	-18.41	69.24
6731.60	Н	53.15	-16.09	69.24
7361.60	Н	52.86	-16.38	69.24
4913.60	V	54.04	-15.20	69.24
7326.40	V	51.41	-17.83	69.24
9851.60	V	45.78	-23.46	69.24

Comments: None

Note: All readings are average unless stated otherwise, using a bandwidth of 1MHz, with a 30 ms sweep time. A video filter was not used.

Test Equipment List:

1 001 1 0 0 1 0 1 1 0 1 1 0 1 1				
Test Equipment	Manufacturer/ Model	Serial No.	Last Cal.	Cal. Due
Vltra Broadband Antenna	RS HL562	A0304224	06/05/05	06/04/07
Horn Antenna	RS HF906	A0304225	06/05/05	06/04/07
EMI Receiver	RS ESIB26	A0304218	06/10/05	06/09/07
5M Anechoic chamber	Albutross	A0304210	04/18/05	04/17/07

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

SIGNED BY:

Loan Wen
ENGINEER

REVIEWED BY:

SENIOR ENGINE



Radiated Emission Test Set-up