



Changes for the Better

MITSUBISHI ELECTRIC CORPORATION
AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS
5-66, TEBIRA 6 CHOME, WAKAYAMA-CITY 640-8686, JAPAN

Test report for EMF

Equipment Name:	AIR CONDITIONER / CONTROLLER
Model Name:	BAC-HD150, PAC-YG50ECA, GB-50ADA-J, GB-50ADA-A
Manufacturer:	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS
Address:	5-66, Tebira 6 Chome, Wakayama-city 640-8686, Japan
Test Report No.:	EUT09001
Technical Standard:	EN 62233: 2008 (IEC 62233: 2005)
Purpose:	Compliance to LVD 2006/95/EC Directive
Date of Issue:	2009-3-1
Revision	A 2010-4-29, B 2012-4-26

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1. Test Configuration

Item of measurement	<input type="checkbox"/> Electric Fields <input checked="" type="checkbox"/> Magnetic Fields		
Method of measurement	<input checked="" type="checkbox"/> Time domain <input type="checkbox"/> Line spectrum <input type="checkbox"/> Simplified test method		
Measuring Distance	0.3m		
Sensor location	Around		
Test condition (Continuously)	Power Supply	Operation Mode	Climatic environment
	1N/ AC240V	Normal mode	normal
Representative unit	BAC-HD150, PAC-YG50ECA		
Test equipment used	No. 01		
Measurement uncertainty	2.5%		
Measurement date	2012-3-16		

2. Results

PASS

The measured maximum B-field is less than 1uT@ 10Hz to 400KHz

3. Measurement limits

Frequency range (f)	E-field strength V/m	H-field strength A/m	B-field μT	Equivalent plane wave power density S_{eq} W/m^2
0 Hz – 1 Hz	-	3.2×10^4	4×10^4	--
1 Hz – 8 Hz	10000	$3.2 \times 10^4/f^2$	$4 \times 10^4/f^2$	--
8 Hz – 25 Hz	10000	4000/f	5000/f	--
0.025 kHz – 0.8 kHz	250/f	4/f	5/f	--
0.8 kHz – 3 kHz	250/f	5	6.25	--
3 kHz – 150 kHz	87	5	6.25	--
0.15 MHz – 1 MHz	87	0.73/f	0.92/f	--
(0.4MHz)	--	--	(2.3)	--
1 MHz – 10 MHz	$87/f^{1/2}$	0.73/f	0.92/f	--
10 MHz – 400 MHz	28	0.073	0.092	2
400MHz – 2000MHz	$1.375f^{1/2}$	$0.0037f^{1/2}$	$0.0046f^{1/2}$	f/200
2 GHz – 300 GHz	61	0.16	0.20	10

f is as indicated in the frequency range column.

4. Measurement Equipment.

No.	Test equipment	Type	Manufacturer	Serial number	Calibration due date
01	RF Level Tester	ELT-400	NARDA	M-0159	2012-8-31