

## *SECTION 7*

*Test Reports of Human Exposure to Electromagnetic Fields*  
(EN62311 /2008)

# EN62311/2008

*Assessment criteria to permit evaluation of compatibility of electrical and electronic apparatus with standards for human exposure to electromagnetic fields*

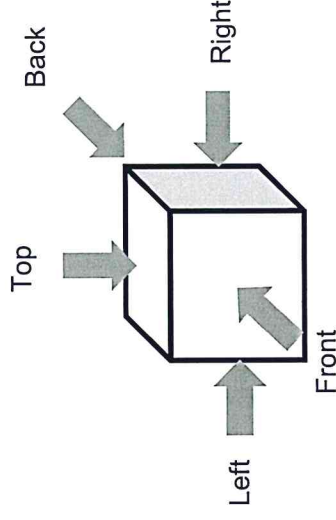
<i>Equipment</i>	<i>Model</i>	<i>Serial No.</i>
Multi-Function Printer	ECOCYS M6535cidn	Z6D4Z00065
Paper Feeder	PF-5100	ZC34900236
		ZC34900237
		ZC34900238
Manual Stapler	MS-5100	V6Y4800015
Printer NIC	IB-50	TEST-1
	IB-51	TEST-1
Hard Disk Drive	HD-6	TEST-1
	HD-7	TEST-1

This test was applied as follows.

<i>Frequency Range</i>	<i>E-Field Strength (V/m)</i>	<i>H-Field Strength (A/m)</i>
Up to 1Hz	---	$3.2 \times 10^4$
1Hz-8Hz	10,000	$3.2 \times 10^4/f^2$
8Hz-25Hz	10.000	$4000/f$
0.025kHz-0.8kHz	$250/f$	$4/f$
0.8kHz-3kHz	$250/f$	5
3kHz-150kHz	87	5
0.15MHz-1MHz	87	$0.73/f$
1MHz-10MHz	$87/f^{1/2}$	$0.73/f$
10MHz-400MHz	27.5	0.073
400MHz-2000MHz	$1.375f^{1/2}$	$0.0037f^{1/2}$
2GHz-300GHz	61	0.16

We entrusted this test to Furuno Labotech International Co., Ltd.  
See the attached documents for details.

Date: 2014/12/26  
 Location: Furuno Labotech EMC Center 10 m semi-anechoic chamber  
 Manufacture: KYOCERA Document Solutions Inc.  
 Product category: MFP  
 Model name (S/N): ECOSYS M6535cidh ( S/N: Z6E4Z00065 )  
 Standard: ICNIRP Guideline Gen.Pub.1998  
 Power supply voltage: 230 VAC, 50 Hz  
 Temperature, humidity: 20°C,,36%RH  
 Operating mode: Standby  
 Operator: Tadayuki.Ekawa, Yuya Katoh  
 Final judgment: Passed (0 cm)  
 Measurement uncertainty: 30%



The uncertainty values specified under each assessment method are the maximum allowed uncertainty.  
 If the uncertainty value is not specified, then a default value of 30 % shall be used. (Refer to EN 62311: 2008, Clause 6)

	Measuring Equipment	Measurement mode	Result		Max. point	Judgment (Passed or Failed)
			Distance	Result		
H-Field	1 Hz to 400 kHz	narda ELT-400	Ambient	0.174		
			0 cm	17.22	Right	Passed
			10 cm	2.346	Right	Passed
	300 kHz to 30 MHz	narda NBM-520 (HF3061)	30 cm	0.338	Right	Passed
			Ambient	0.0067		
			0 cm	0.0096	Front	Passed
	27 MHz to 1 GHz	narda NBM-520 (HF0191)	10 cm	0.0084	Front	Passed
			30 cm	0.0091	Front	Passed
			Ambient	0.0065		
	100 kHz to 3 GHz	narda NBM-520 (EF0391)	0 cm	0.0122	Front	Passed
			10 cm	0.0102	Front	Passed
			30 cm	0.0079	Front	Passed
E-Field	300 kHz to 50 GHz	narda NBM-520 (ED5091)	Ambient	0.07		
			0 cm	2.10	Back	Passed
			10 cm	0.24	Back	Passed
			30 cm	0.10	Back	Passed
			Ambient	0.4250		
			0 cm	0.6302	Front	Passed
			10 cm	0.6082	Front	Passed
			30 cm	0.5569	Front	Passed

Date: 2014/12/26

Location: Furuno Labotech EMC Center 10 m semi-anechoic chamber

Manufacture: KYOCERA Document Solutions Inc.

Product category: MFP

Model name (S/N): ECOSYS M6535cidh ( S/N: Z6E4Z00065 )

Standard: ICNIRP Guideline Gen.Pub.1998

Power supply voltage: 230 VAC, 50 Hz

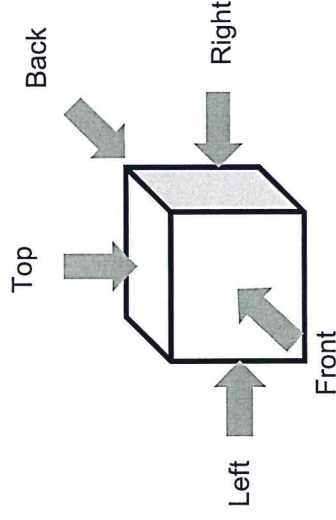
Temperature, humidity: 20°C, 36%RH

Operating mode: Copy

Operator: Tadayuki.Ekawa, Yuya Katoh

Final judgment: Passed (10 cm)

Measurement uncertainty: 30%



The uncertainty values specified under each assessment method are the maximum allowed uncertainty.  
If the uncertainty value is not specified, then a default value of 30 % shall be used. (Refer to EN 62311: 2008, Clause 6)

		Measuring Equipment	Measurement mode	Result		Max. point	Judgment (Passed or Failed)
				Distance	Result		
H-Field	1 Hz to 400 kHz	narda ELT-400	Std Mode 100%	Ambient	0.183		
				0 cm	272.4	Left	Failed
				10 cm	17.52	Left	Passed
				30 cm	2.041	Left	Passed
				Ambient	0.0054		
				0 cm	0.0903	Right	Failed
	300 kHz to 30 MHz	narda NBM-520 (HF3061)	MAX. Hold (Peak) 0.073 A/m	10 cm	0.0227	Right	Passed
				30 cm	0.0192	Right	Passed
				Ambient	0.0048		
				0 cm	0.0359	Top	Passed
				10 cm	0.0316	Top	Passed
				30 cm	0.0170	Top	Passed
E-Field	100 kHz to 3 GHz	narda NBM-520 (EF0391)	MAX. Hold (Peak) 27.5 V/m	Ambient	0.10		
				0 cm	119.7	Right	Failed
				10 cm	6.40	Right	Passed
				30 cm	0.80	Right	Passed
				Ambient	0.0440		
				0 cm	9.43	Right	Passed
	300 kHz to 50 GHz	narda NBM-520 (ED5091)	MAX. Hold (Peak) 20%	10 cm	0.2237	Right	Passed
				30 cm	0.0466	Right	Passed
				Ambient			
				0 cm			
				10 cm			
				30 cm			