

SECTION 1

Test Reports of Immunity

(EN55024/2010)

EN61000-4-2/2009
(*EN 301 489-1 V1.9.2 <9.3>*)

Electrostatic Discharge Immunity Test

<i>Equipment</i>	<i>Model</i>	<i>Serial No.</i>
Multi-Function Printer	TASKalfa 356ci / 406ci	Z795300015
Paper Feeder	PF-5120	Z7J5300158
	PF-5130	Z7K5300102
	PF-5140	Z7L5300058
Document Processor	DP-5100	Z7N5300057
	DP-5110	Z7P5300071
Finisher	DF-5100	Z7T5300071
	DF-5110	Z7Q5300058
	DF-5120	Z7R5300051
Punch Unit	PH-5120	Z7V5300045
Multi Tray	MT-5100	Z7U5300081
Job Separator	JS-5100	Z7H5300059
Printer NIC	IB-50	TEST-1
	IB-51	TEST-1
Bridge	AK-5100	Z7G5300125
FAX Kit	FAX System 10	ZEF5300008
Hard Disk Drive	HD-11	ZEM5300021

Date : 16 June, 2015

Temperature : 24°C

Humidity : 52%

Atom. Pressure : 1010hPa

Testing Place : Kyocera Document Solutions CE Test Room

Power Input : AC230V, 50Hz

Tested by : Takayuki Matsuura

T. Matsuura

This test was applied as follows.

<i>Voltage</i>	<i>Discharging method</i>	<i>Criteria</i>	<i>Result</i>
± 4.0kV	Contact discharge	B	Pass
± 8.0kV	Air discharge	B	Pass
± 4.0kV	Indirect discharge	B	Pass

Test equipment used:

ESD Generator : ESS-200AX (Noise Laboratory Co., Ltd.)

ESD Gun : TC-815D (Noise Laboratory Co., Ltd.)

Electrostatic Discharge Immunity Test

Model : TASKalfa 356ci / TASKalfa 406ci
(Test Date : 2015.June.)

◎Operation Mode

1. Stand by
2. Copy
3. LAN Print (On Board)
4. FAX Tx + USB Print

◎Discharge Method

- C : Contact Discharge
A : Air Discharge
V : Discharge into VCP
H : Discharge into HCP

P. 1 / 2

No.	Discharged parts	Mode	Method	Result
	●MFP (Main)			
01	Screws for Operation Panel	1, 2, 3, 4, 5	C, A	Worked Normal
02	Screws for Right Side	1, 2, 3, 4, 5	C, A	Worked Normal
03	Handle	1, 2, 3, 4, 5	C, A	Worked Normal
04	Fixing Mount for Printer , Printer NIC and FAX Kit	1, 2, 3, 4, 5	C, A	Worked Normal
05	Connector for LAN Port Line	1, 2, 3, 4, 5	C, A	Worked Normal
06	Connector for USB Port Line	1, 2, 3, 4, 5	C, A	Worked Normal
07	Screws for Back Side	1, 2, 3, 4, 5	C, A	Worked Normal
08	Fixing Mount for AC Inlet	1, 2, 3, 4, 5	C, A	Worked Normal
09	Fixing Mount for Modular Connector	1, 2, 3, 4, 5	C, A	Worked Normal
10	Screws for Left Side	1, 2, 3, 4, 5	C, A	Worked Normal
11	Metallic Parts for Bypass	1, 2, 3, 4, 5	C, A	Worked Normal
12	Screws for Top Side	1, 2, 3, 4, 5	C, A	Worked Normal
13	Metallic Parts in Inner Tray	1, 2, 3, 4, 5	C, A	Worked Normal
14	Screws for top side	1, 2, 3, 4, 5	C, A	Worked Normal
15	Screws for left side	1, 2, 3, 4, 5	C, A	Worked Normal
16	Screws for right side	1, 2, 3, 4, 5	C, A	Worked Normal
17	Screws for back side	1, 2, 3, 4, 5	C, A	Worked Normal
18	Metallic cover for back side	1, 2, 3, 4, 5	C, A	Worked Normal
19	Attachment for Finisher	1	C, A	Worked Normal
20	Inner metallic parts in bypass part	1	C, A	Worked Normal
21	Inner metallic parts inside front cover (*opened)	1	C, A	Worked Normal
22	Inner metallic parts in paper cassettes	1	C, A	Worked Normal
	●DP			
23	Screws for back side	1, 2, 3, 4, 5	C, A	Worked Normal
24	Left / right hinge	1, 2, 3, 4, 5	C, A	Worked Normal
25	Metallic parts for convey part	1, 2, 3, 4, 5	C, A	Worked Normal
26	Inner metallic parts inside top cover	1	C, A	Worked Normal
27	Metallic parts for bottom side	1	C, A	Worked Normal
	●Finisher / MT			
28	Screws for back side	1, 2, 3, 4, 5	C, A	Worked Normal
29	Screws for left side	1, 2, 3, 4, 5	C, A	Worked Normal
30	Metallic parts for left side	1, 2, 3, 4, 5	C, A	Worked Normal
31	Metallic parts for paper exit part	1, 2, 3, 4, 5	C, A	Worked Normal
32	Finisher base	1, 2, 3, 4, 5	C, A	Worked Normal
33	Inner metallic parts inside front cover	1	C, A	Worked Normal
34	Inner metallic parts inside top cover	1	C, A	Worked Normal
	●Paper Feeder			
35	Screws for Right Side	1, 2, 3, 4, 5	C, A	Worked Normal
36	Screws for back side	1, 2, 3, 4, 5	C, A	Worked Normal
04	Screws for Top side	1	C, A	Worked Normal
37	Inner metallic parts inside top cover	1	C, A	Worked Normal
38	Inner metallic parts in paper cassettes	1	C, A	Worked Normal

No.	*Indirect Discharge	Mode	Method	Result
01	Front Side	1, 2, 3, 4, 5	V	Worked Normal
02	Rear Side	1, 2, 3, 4, 5	V	Worked Normal
03	Left Side	1, 2, 3, 4, 5	V	Worked Normal
04	Right Side	1, 2, 3, 4, 5	V	Worked Normal

EN61000-4-4/2012
(*EN 301 489-1 V1.9.2 <9.4>*)

Electrical Fast Transient/Burst Immunity Test

<i>Equipment</i>	<i>Model</i>	<i>Serial No.</i>
Multi-Function Printer	TASKalfa 356ci / 406ci	Z795300015
Paper Feeder	PF-5120	Z7J5300158
	PF-5130	Z7K5300102
	PF-5140	Z7L5300058
Document Processor	DP-5100	Z7N5300057
	DP-5110	Z7P5300071
Finisher	DF-5100	Z7T5300071
	DF-5110	Z7Q5300058
	DF-5120	Z7R5300051
Punch Unit	PH-5120	Z7V5300045
Multi Tray	MT-5100	Z7U5300081
Job Separator	JS-5100	Z7H5300059
Printer NIC	IB-50	TEST-1
	IB-51	TEST-1
Bridge	AK-5100	Z7G5300125
FAX Kit	FAX System 10	ZEF5300008
Hard Disk Drive	HD-11	ZEM5300021

Date : 7 July, 2015

Temperature : 25°C

Humidity : 58%

Atom. Pressure : 1012hPa

Testing Place : Kyocera Document Solutions CE Test Room

Power Input : AC230V, 50Hz

Tested by : Takayuki Matsuura

T. Matsuura

This test was applied as follows.

		<i>Voltage</i>	<i>Duration</i>	<i>Criteria</i>	<i>Result</i>
E.U.T. Power Line	PE	$\pm 1.0\text{kV}$, 5kHz	1 min.	B	Pass
	L				
	N				
Communication Line		$\pm 0.5\text{kV}$, 5kHz	1 min.	B	Pass

Test equipment used:

EFT/B Test System : FNS-AX3-A16B (Noise Laboratory Co., Ltd.)

EFT/B Immunity Test

Model : TASKalfa 356ci / TASalfa 406ci

(Test Date: 2015.June.)

	Power Supply Port			Communication Port	*Remarks
	PE	L1	L2		
1. Copy	Worked normal	Worked normal	Worked normal	LAN Cable/USB Cable/Modular Cable	
2. USB Print + FAX Tx	Worked normal	Worked normal	Worked normal	Worked normal	
3. LAN Print (On Board)	Worked normal	Worked normal	Worked normal	Worked normal	
4. Data Tx (Wireless)	Worked normal	Worked normal	Worked normal	Worked normal	

EN61000-4-5/2006
(EN 301 489-1 V1.9.2 <9.8>)
Surge Immunity Test

<i>Equipment</i>	<i>Model</i>	<i>Serial No.</i>
Multi-Function Printer	TASKalfa 356ci / 406ci	Z795300015
Paper Feeder	PF-5120	Z7J5300158
	PF-5130	Z7K5300102
	PF-5140	Z7L5300058
Document Processor	DP-5100	Z7N5300057
	DP-5110	Z7P5300071
Finisher	DF-5100	Z7T5300071
	DF-5110	Z7Q5300058
	DF-5120	Z7R5300051
Punch Unit	PH-5120	Z7V5300045
Multi Tray	MT-5100	Z7U5300081
Job Separator	JS-5100	Z7H5300059
Printer NIC	IB-50	TEST-1
	IB-51	TEST-1
Bridge	AK-5100	Z7G5300125
FAX Kit	FAX System 10	ZEF5300008
Hard Disk Drive	HD-11	ZEM5300021

Date : 17 June, 2015

Temperature : 24°C

Humidity : 54%

Atom. Pressure : 1013hPa

Testing Place : Kyocera Document Solutions CE Test Room

Power Input : AC230V, 50Hz

Tested by : Takayuki Matsuura

T. Matsuura

This test was applied as follows.

		<i>Voltage</i>	<i>Degree</i>	<i>Criteria</i>	<i>Result</i>
E.U.T. Power Line	L1-L2	± 1.0kV	0 ° , 90 ° , 270 °	B	Pass
	L1-PE	± 2.0kV			Pass
	L2-PE	± 2.0kV			Pass

Test equipment used:

Surge Test System : LSS-F02C1 (Noise Laboratory Co., Ltd.)

Surge Immunity Test

Model: TASKalfa 356ci / TASKalfa 406ci

(Test Date : 2015.June)

Mode : (1) Copy

Coupling	Surge Voltage	Phase		
		0 deg	90 deg	270 deg
L1 - L2	± 500V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
	±1000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
L1 - PE	±1000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
	±2000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
L2 - PE	±1000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
	±2000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>

Mode : (2) LAN Print (On Board)

Coupling	Surge Voltage	Phase		
		0 deg	90 deg	270 deg
L1 - L2	± 500V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
	±1000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
L1 - PE	±1000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
	±2000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
L2 - PE	±1000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
	±2000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>

Mode : (3) FAX Tx + USB Print

Coupling	Surge Voltage	Phase		
		0 deg	90 deg	270 deg
L1 - L2	± 500V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
	±1000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
L1 - PE	±1000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
	±2000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
L2 - PE	±1000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
	±2000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>

Mode : (4) Data Tx (Wireless)

Coupling	Surge Voltage	Phase		
		0 deg	90 deg	270 deg
L1 - L2	± 500V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
	±1000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
L1 - PE	±1000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
	±2000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
L2 - PE	±1000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>
	±2000V	<i>Worked normal</i>	<i>Worked normal</i>	<i>Worked normal</i>

EN61000-4-11/2004
(*EN 301 489-1 V1.9.2 <9.7>*)

*Voltage Dips, Short Interruption
and Voltage Variation Immunity Test*

<i>Equipment</i>	<i>Model</i>	<i>Serial No.</i>
Multi-Function Printer	TASKalfa 356ci / 406ci	Z795300015
Paper Feeder	PF-5120	Z7J5300158
	PF-5130	Z7K5300102
	PF-5140	Z7L5300058
Document Processor	DP-5100	Z7N5300057
	DP-5110	Z7P5300071
Finisher	DF-5100	Z7T5300071
	DF-5110	Z7Q5300058
	DF-5120	Z7R5300051
Punch Unit	PH-5120	Z7V5300045
Multi Tray	MT-5100	Z7U5300081
Job Separator	JS-5100	Z7H5300059
Printer NIC	IB-50	TEST-1
	IB-51	TEST-1
Bridge	AK-5100	Z7G5300125
FAX Kit	FAX System 10	ZEF5300008
Hard Disk Drive	HD-11	ZEM5300021

Date : 18 June, 2015

Temperature : 24°C

Humidity : 54%

Atom. Pressure : 1014hPa

Testing Place : Kyocera Document Solutions CE Test Room

Power Input : AC230V, 50Hz

Tested by : Takayuki Matsuura

T. Matsuura

This test was applied as follows.

	<i>Reduction</i>	<i>Term</i>	<i>Criteria</i>	<i>Result</i>
Voltage Dips	100%	0.5c/s	B	Pass
	30%	25c/s	C	Pass
Short Interruptions	100%	250c/s	C	Pass

Test equipment used:

Voltage Dip Simulator : VDS-220SB (Noise Laboratory Co., Ltd.)

Voltage Dips & Short Interruptions Test

Model: TASKalfa 356ci / TASalfa 406ci

(Test Date : 2015.June)

Mode : (1) Copy

	<i>Reduction</i>	<i>Term</i>	<i>Criteria</i>	<i>Result</i>	<i>Remarks</i>
Vol. Dips	100%	0.5c/s	B	<i>Pass</i>	<i>*Worked Normal</i>
	30%	25c/s	C	<i>Pass</i>	<i>*Worked Normal</i>
Short Int.	100%	250c/s	C	<i>Pass</i>	<i>*Maked Reset</i>

Mode : (2) LAN Print (On Board)

	<i>Reduction</i>	<i>Term</i>	<i>Criteria</i>	<i>Result</i>	<i>Remarks</i>
Vol. Dips	100%	0.5c/s	B	<i>Pass</i>	<i>*Worked Normal</i>
	30%	25c/s	C	<i>Pass</i>	<i>*Worked Normal</i>
Short Int.	100%	250c/s	C	<i>Pass</i>	<i>*Maked Reset</i>

Mode : (3) FAX Tx + USB Print

	<i>Reduction</i>	<i>Term</i>	<i>Criteria</i>	<i>Result</i>	<i>Remarks</i>
Vol. Dips	100%	0.5c/s	B	<i>Pass</i>	<i>*Worked Normal</i>
	30%	25c/s	C	<i>Pass</i>	<i>*Worked Normal</i>
Short Int.	100%	250c/s	C	<i>Pass</i>	<i>*Maked Reset</i>

*EN61000-4-3/2006+A1/2008+A2/2010 + ENV50204/1996
(EN 301 489-1 V1.9.2 <9.2>)*

*Radiated RF Electromagnetic Field
Immunity Test*

<i>Equipment</i>	<i>Model</i>	<i>Serial No.</i>
Multi-Function Printer	TASKalfa 356ci / 406ci	Z795300015
Paper Feeder	PF-5120	Z7J5300158
	PF-5130	Z7K5300102
	PF-5140	Z7L5300058
Document Processor	DP-5100	Z7N5300057
	DP-5110	Z7P5300071
Finisher	DF-5100	Z7T5300071
	DF-5110	Z7Q5300058
	DF-5120	Z7R5300051
Punch Unit	PH-5120	Z7V5300045
Multi Tray	MT-5100	Z7U5300081
Job Separator	JS-5100	Z7H5300059
Printer NIC	IB-50	TEST-1
	IB-51	TEST-1
Bridge	AK-5100	Z7G5300125
FAX Kit	FAX System 10	ZEF5300008
Hard Disk Drive	HD-11	ZEM5300021

Date : 10, 12 June, 2015

Temperature : 24°C

Humidity : 58%

Atom. Pressure : 1014hPa

Testing Place : Kyocera Document Solutions Tamaki Factory

Power Input : AC230V, 50Hz

Tested by : Takayuki Matsuura

T. Matsuura

This test was applied as follows.

<i>Frequency</i>	<i>Polarity</i>	<i>RF Level</i>	<i>Criteria</i>	<i>Result</i>
80~1000 MHz 1400~2700 MHz	Vertical	3V/m, 80%, 1kHz AM Modulation	A	Pass
	Horizontal			Pass
900±5 MHz	Vertical	3V/m, 100%, 1kHz Frequency 200Hz Duty Cycle 50% PulseMod.	A	Pass
	Horizontal			Pass

We tested at Tamaki EMC Laboratory of KYOCERA Document Solutions Tamaki Factory

Test equipment used : See the attached documents for details.

EN 301 489-1 V1.9.2 <9.2>

Radiated RF Electromagnetic Field

Immunity Test

<i>Equipment</i>	<i>Model</i>	<i>Serial No.</i>
Multi-Function Printer	TASKalfa 356ci / 406ci	Z795300015
Paper Feeder	PF-5120	Z7J5300158
	PF-5130	Z7K5300102
	PF-5140	Z7L5300058
Document Processor	DP-5100	Z7N5300057
	DP-5110	Z7P5300071
Finisher	DF-5100	Z7T5300071
	DF-5110	Z7Q5300058
	DF-5120	Z7R5300051
Punch Unit	PH-5120	Z7V5300045
Multi Tray	MT-5100	Z7U5300081
Job Separator	JS-5100	Z7H5300059
Printer NIC	IB-50	TEST-1
	IB-51	TEST-1
Bridge	AK-5100	Z7G5300125
FAX Kit	FAX System 10	ZEF5300008
Hard Disk Drive	HD-11	ZEM5300021

This test was applied as follows.

<i>Frequency</i>	<i>Polarity</i>	<i>RF Level</i>	<i>Criteria</i>	<i>Result</i>
1400~2700 MHz	Vertical	3V/m, 80%, 1kHz AM Modulation	A	Pass
	Horizontal			Pass

We tested at Tamaki EMC Laboratory of Labotech International Co., Ltd.

Test equipment used : See the attached documents for details.

Radiated RF Electromagnetic Field Immunity Test

Model: TASKalfa 356ci / TASKalfa 406ci

(Test Date : 2015.June.)

Mode : (1) Copy

<i>Test Face</i>	<i>Polar.</i>	<i>Result</i>	<i>Remarks</i>
Front	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	
Right	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	
Rear	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	
Left	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	

Mode : (2) LAN Print (On Board)

<i>Test Face</i>	<i>Polar.</i>	<i>Result</i>	<i>Remarks</i>
Front	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	
Right	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	
Rear	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	
Left	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	

Mode : (3) FAX Tx + USB Print

<i>Test Face</i>	<i>Polar.</i>	<i>Result</i>	<i>Remarks</i>
Front	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	
Right	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	
Rear	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	
Left	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	

Mode : (4) LAN Print (Option)(Wireless)

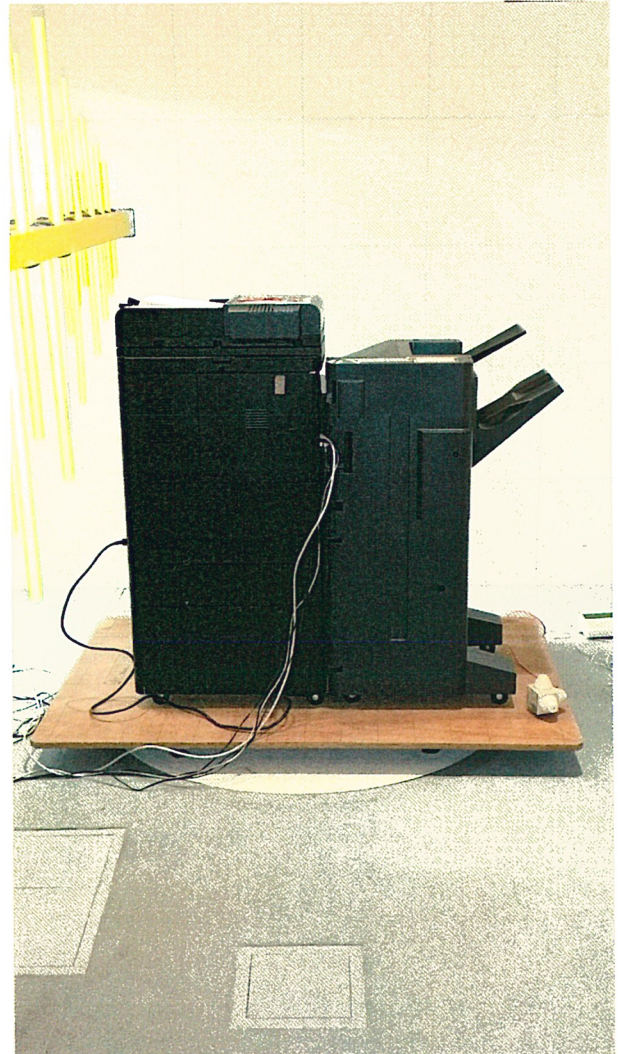
<i>Test Face</i>	<i>Polar.</i>	<i>Result</i>	<i>Remarks</i>
Front	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	
Right	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	
Rear	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	
Left	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	

Mode : (5) Data Tx (Wireless) 1400MHz - 2700MHz

<i>Test Face</i>	<i>Polar.</i>	<i>Result</i>	<i>Remarks</i>
Front	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	
Right	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	
Rear	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	
Left	Vertical	<i>EUT worked normal.</i>	
	Horizontal	<i>EUT worked normal.</i>	

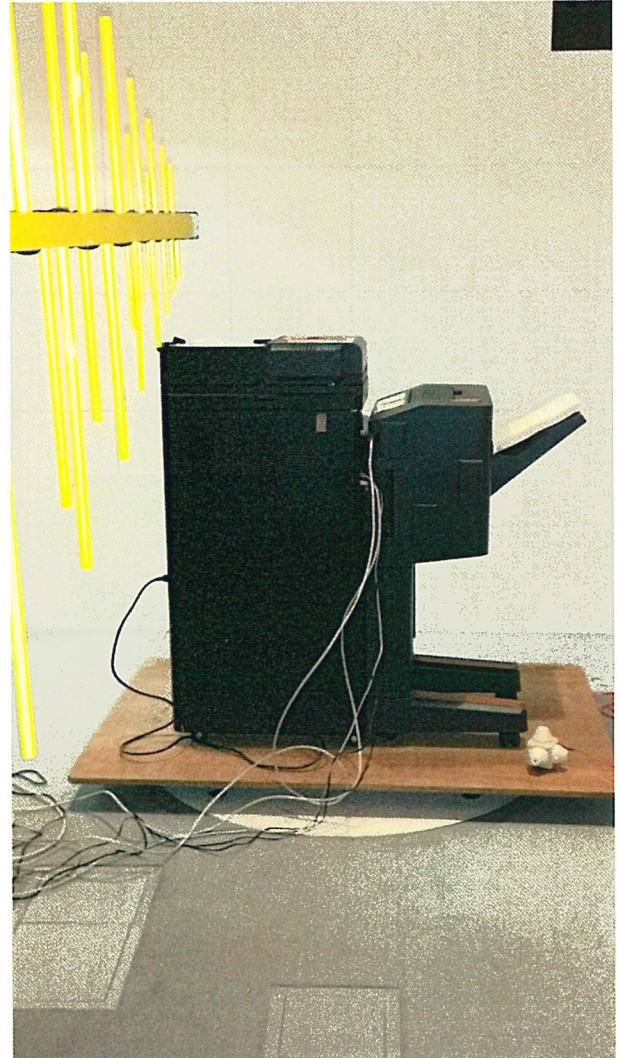
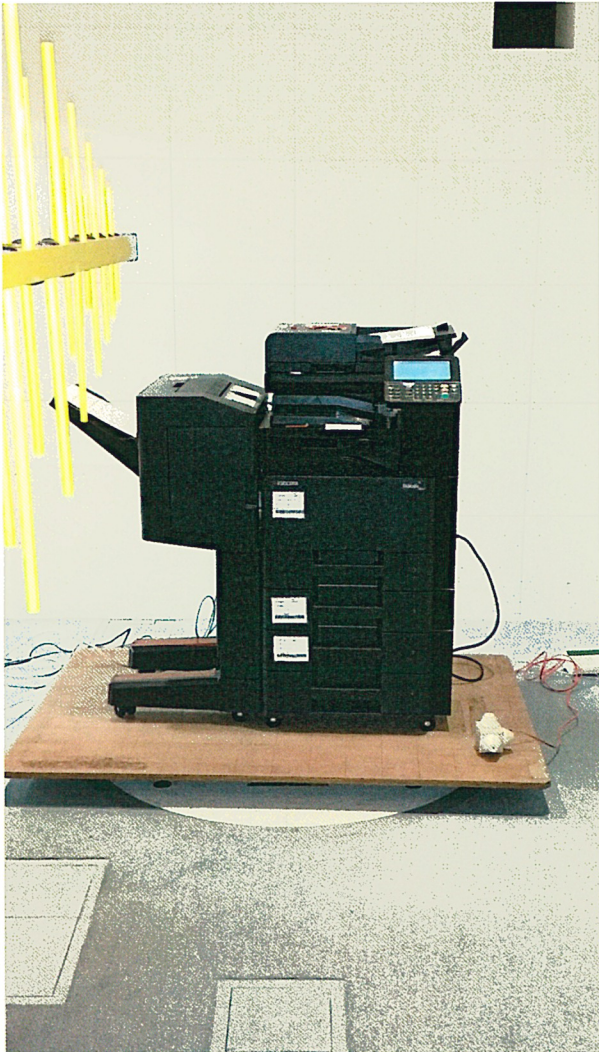
Photograph of Tested Device Configuration

(Radiated RF Electromagnetic Field Immunity Test)



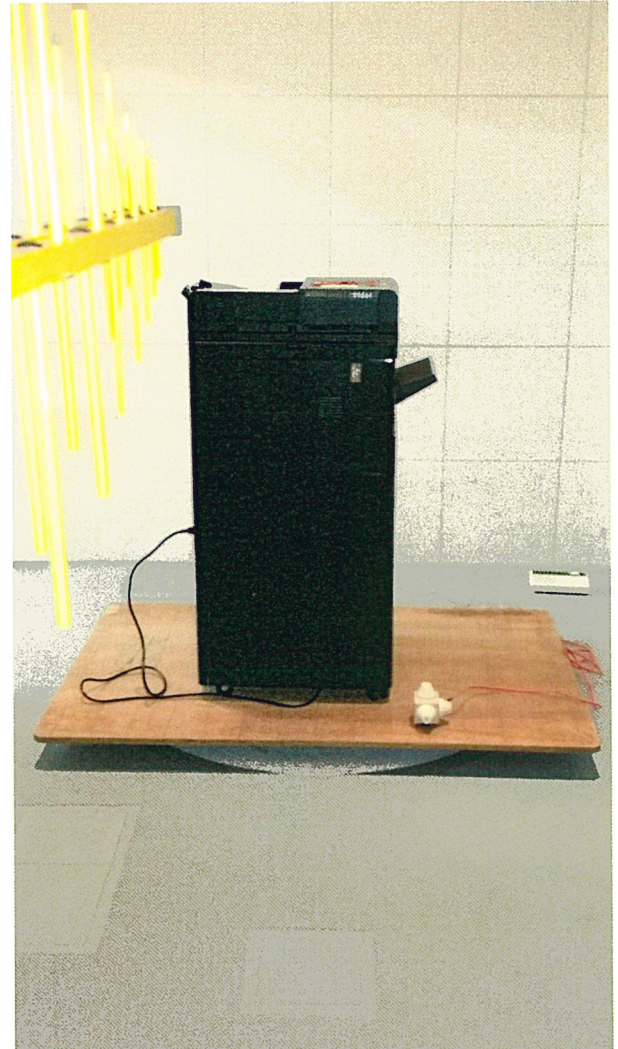
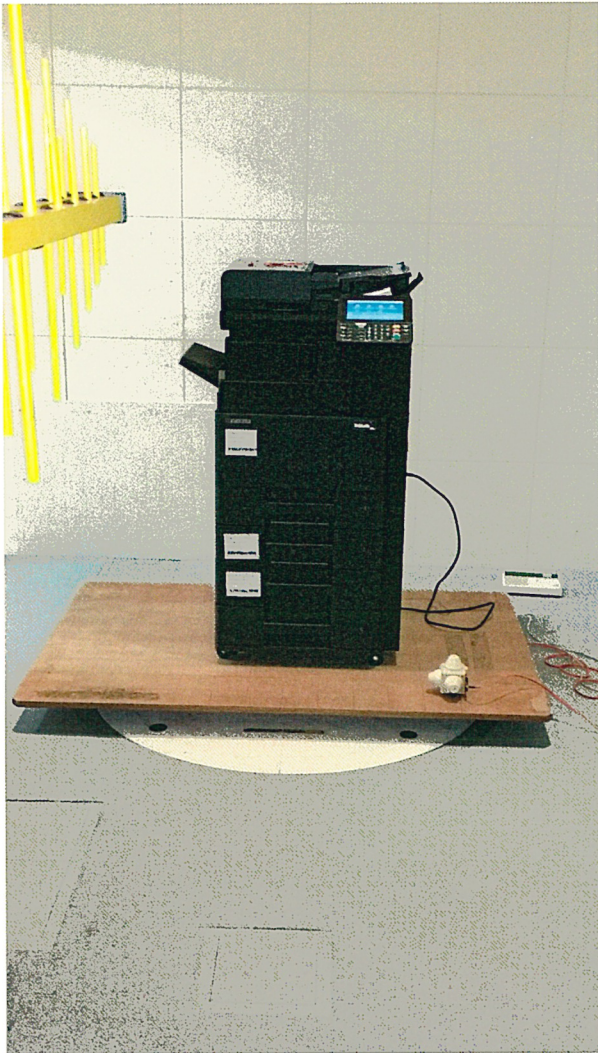
Photograph of Tested Device Configuration

(Radiated RF Electromagnetic Field Immunity Test)



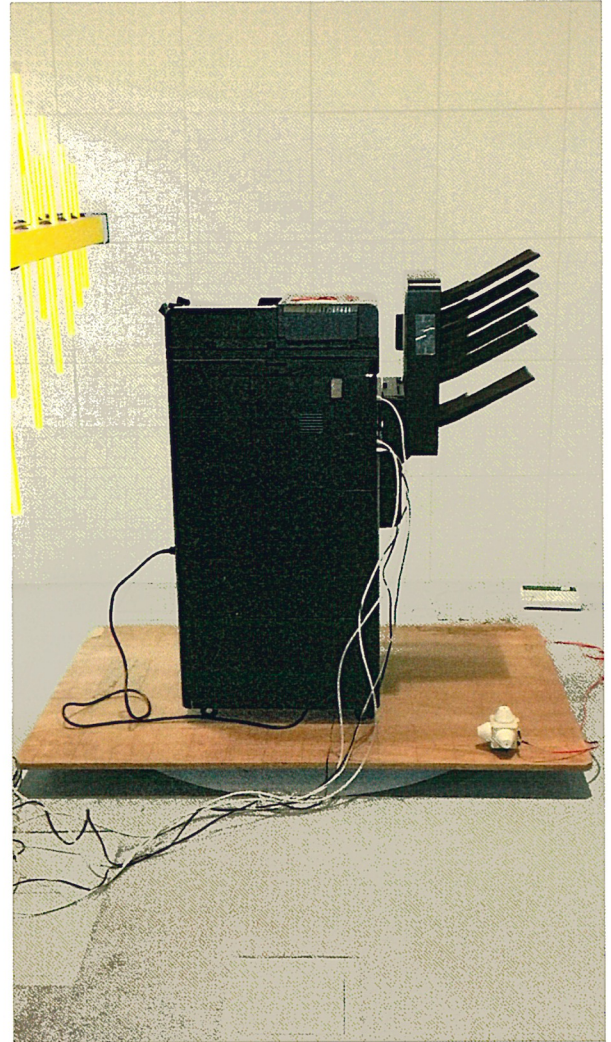
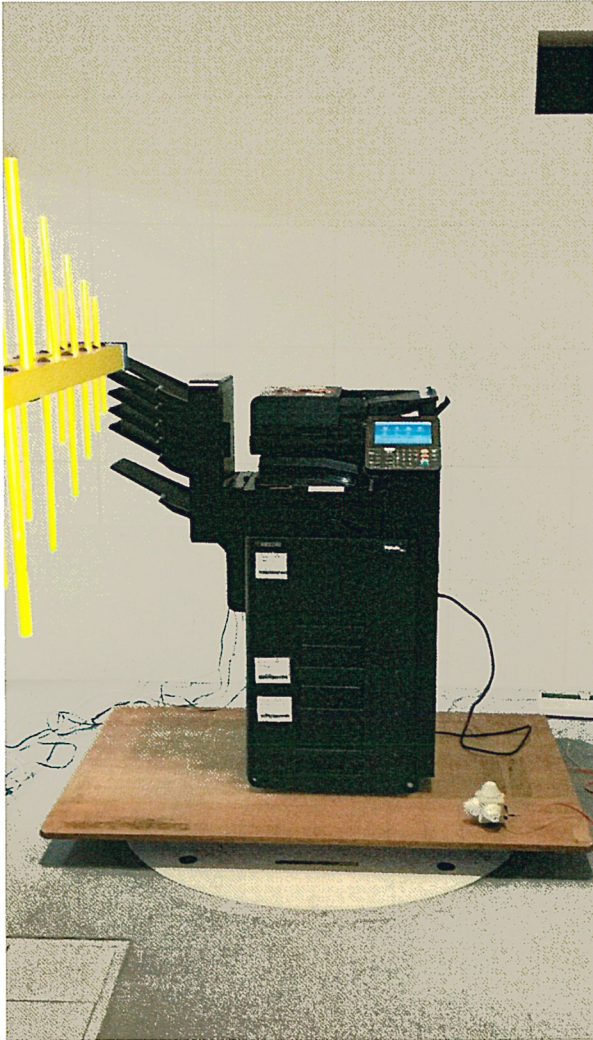
Photograph of Tested Device Configuration

(Radiated RF Electromagnetic Field Immunity Test)



Photograph of Tested Device Configuration

(Radiated RF Electromagnetic Field Immunity Test)



EN61000-4-6/2009
(EN 301 489-1 V1.9.2 <9.5>)
Conducted RF Electromagnetic Field
Immunity Test

<i>Equipment</i>	<i>Model</i>	<i>Serial No.</i>
Multi-Function Printer	TASKalfa 356ci / 406ci	Z795300015
Paper Feeder	PF-5120	Z7J5300158
	PF-5130	Z7K5300102
	PF-5140	Z7L5300058
Document Processor	DP-5100	Z7N5300057
	DP-5110	Z7P5300071
Finisher	DF-5100	Z7T5300071
	DF-5110	Z7Q5300058
	DF-5120	Z7R5300051
Punch Unit	PH-5120	Z7V5300045
Multi Tray	MT-5100	Z7U5300081
Job Separator	JS-5100	Z7H5300059
Printer NIC	IB-50	TEST-1
	IB-51	TEST-1
Bridge	AK-5100	Z7G5300125
FAX Kit	FAX System 10	ZEF5300008
Hard Disk Drive	HD-11	ZEM5300021

Date : 12 June, 2015

Temperature : 24°C

Humidity : 56%

Atom. Pressure : 1016hPa

Testing Place : Kyocera Document Solutions Tamaki Factory

Power Input : AC230V, 50Hz

Tested by : Takayuki Matsuura

T. Matsuura

This test was applied as follows.

<i>Frequency</i>	<i>RF Level</i>	<i>Criteria</i>	<i>Result</i>
E.U.T. Power Line Communication Line	0.15~80 MHz 3V/m, 80%, 1kHz AM Modulation	A	Pass

We tested at Tamaki EMC Laboratory of KYOCERA Document Solutions Tamaki Factory.

Test equipment used : See the attached documents for details.

Conducted RF Electromagnetic Field Immunity Test

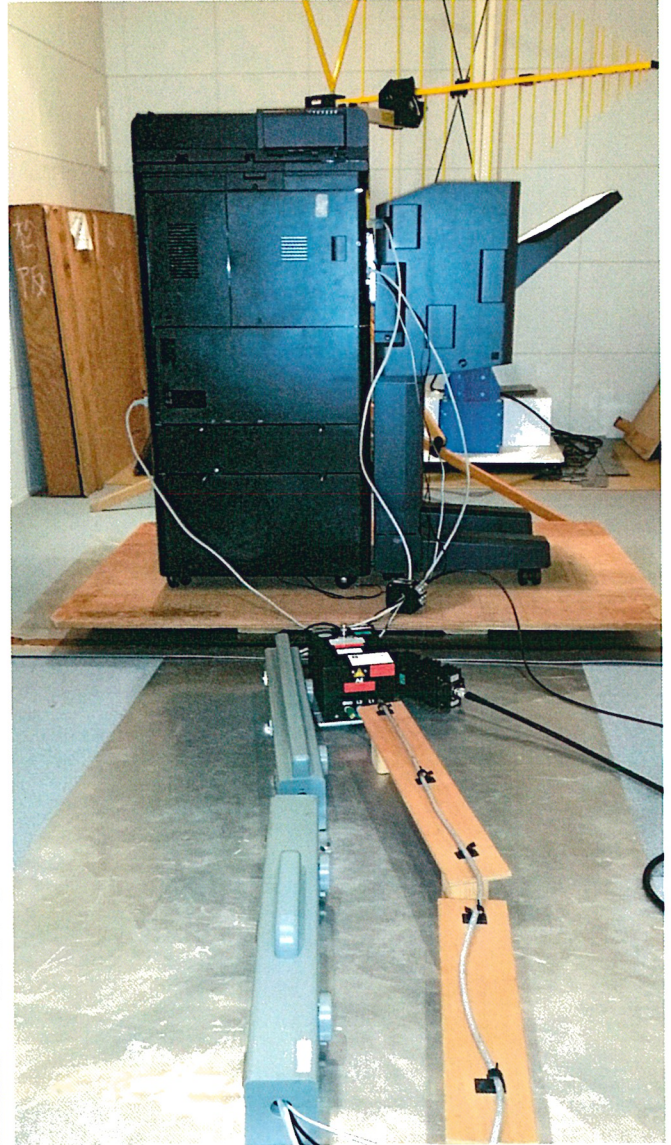
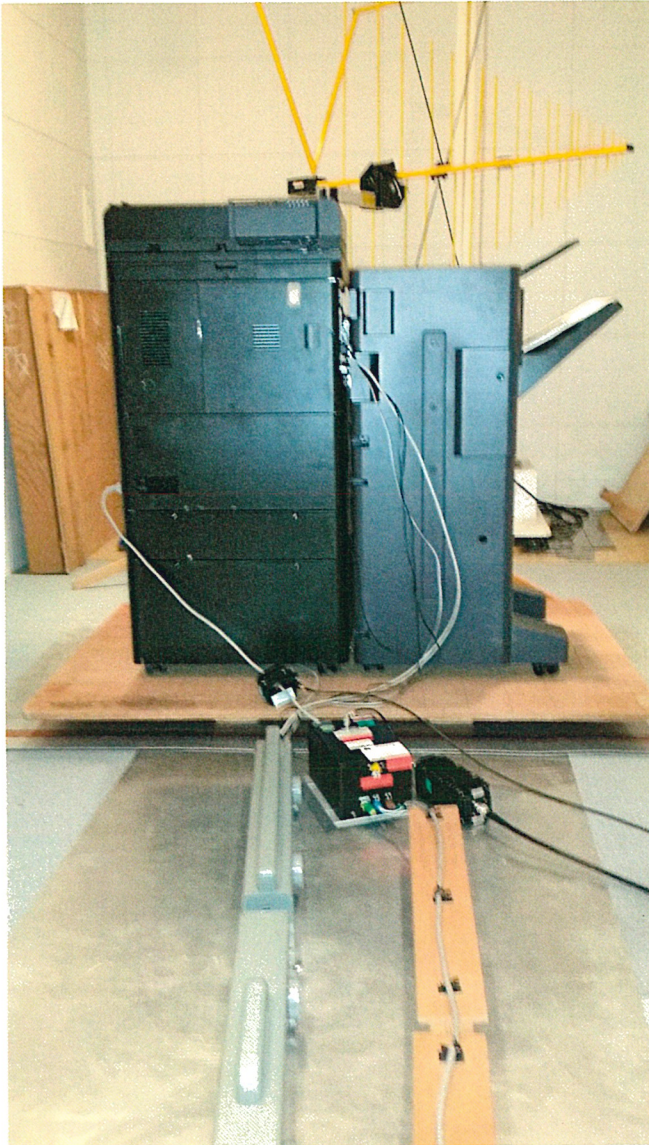
Model : TASKalfa 356ci / TASKalfa 406ci

(Test Date: 2015.June.)

<i>Tested Port</i>	<i>Coupling</i>	<i>Operation Mode</i>	<i>Result</i>	<i>Remarks</i>
AC Power Cord for Printer	CDN M3	Copy	<i>EUT worked normal.</i>	
LAN Cable	EM Clamp	LAN Print (On Board) + FAX Rx LAN Print (Option) (Wireless)	<i>EUT worked normal.</i>	
USB Cable	EM Clamp	FAX Tx + USB Print	<i>EUT worked normal.</i>	

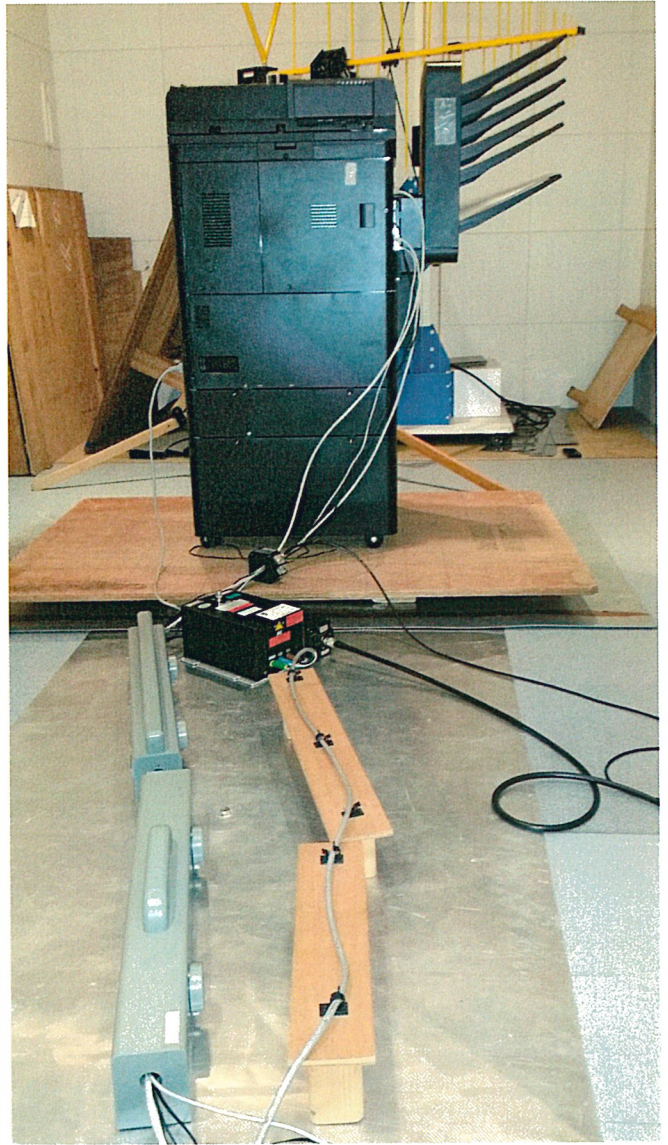
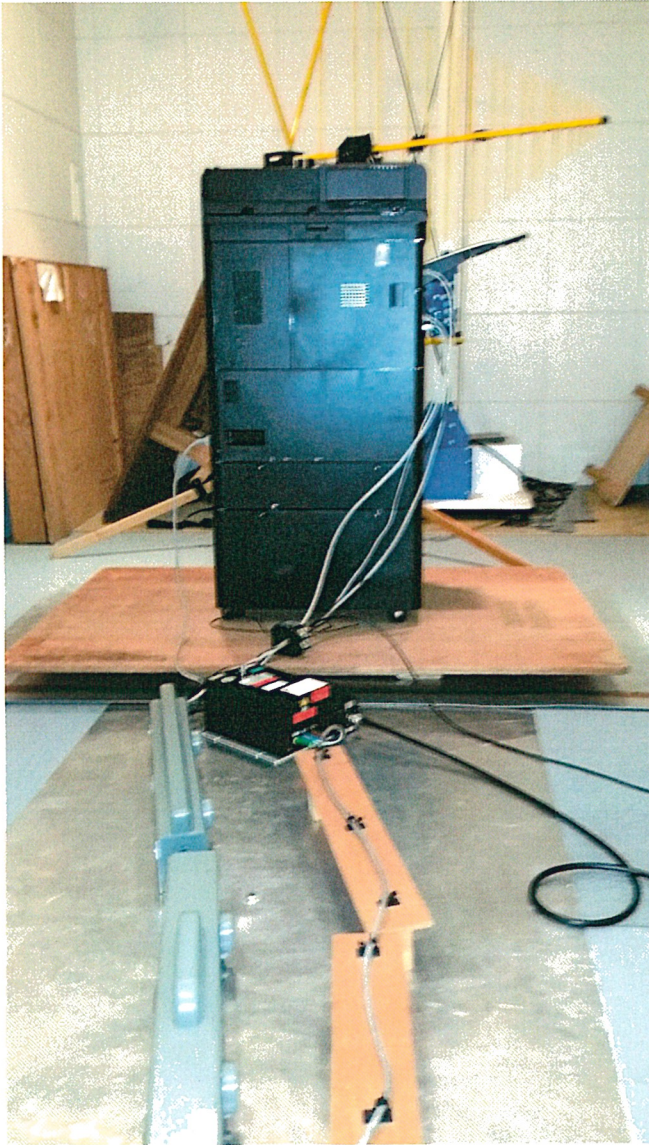
Photograph of Tested Device Configuration

(Conducted RF Electromagnetic Field Immunity Test)



Photograph of Tested Device Configuration

(Conducted RF Electromagnetic Field Immunity Test)



EN61000-4-8/2010

Power-Frequency Magnetic Field Immunity Test

<i>Equipment</i>	<i>Model</i>	<i>Serial No.</i>
Multi-Function Printer	TASKalfa 356ci / 406ci	Z795300015
Paper Feeder	PF-5120	Z7J5300158
	PF-5130	Z7K5300102
	PF-5140	Z7L5300058
Document Processor	DP-5100	Z7N5300057
	DP-5110	Z7P5300071
Finisher	DF-5100	Z7T5300071
	DF-5110	Z7Q5300058
	DF-5120	Z7R5300051
Punch Unit	PH-5120	Z7V5300045
Multi Tray	MT-5100	Z7U5300081
Job Separator	JS-5100	Z7H5300059
Printer NIC	IB-50	TEST-1
	IB-51	TEST-1
Bridge	AK-5100	Z7G5300125
FAX Kit	FAX System 10	ZEF5300008
Hard Disk Drive	HD-11	ZEM5300021

Date : 12 June, 2015

Temperature : 24°C

Humidity : 58%

Atom. Pressure : 1015hPa

Testing Place : Kyocera Document Solutions Tamaki Factory

Power Input : AC230V, 50Hz

Tested by : Takayuki Matsuura

T. Matsuura

This test was applied as follows.

<i>Frequency</i>	<i>Level</i>	<i>Criteria</i>	<i>Result</i>
50 Hz	1A/m	A	Pass

We tested at Tamaki EMC Laboratory of KYOCERA Document Solutions Tamaki Factory.

Test equipment used : See the attached documents for details.

Power-Frequency Magnetic Field Immunity Test

Model : TASKalfa 356ci / TASKalfa 406ci

(Test Date: 2015.January.)

<i>Polarization</i>	<i>Operation Mode</i>	<i>Result</i>	<i>Remarks</i>
X	Copy	<i>EUT worked normal.</i>	
Y	Copy	<i>EUT worked normal.</i>	
Z	Copy	<i>EUT worked normal.</i>	

Photograph of Tested Device Configuration

(Power-Frequency Magnetic Field Immunity Test)



List of Tests and Measurement Equipment

『Test Clause』

EN61000-4-3/ENV50204

: Radiated RF Electromagnetic Field Immunity Test

EN61000-4-6

: Conducted RF Electromagnetic Field Immunity Test

<i>Equipment</i>	<i>Type</i>	<i>Manufacturer</i>	<i>Serial No.</i>
RF Signal Generator	HP8648B	Hewlett Packard	3642U01646
RF Power Amplifier	757LCB	Kalmas Engineering	8289-1
Amplifier Interface	IF-488	Kalmas Engineering	8289-2
Power Reflection Meter	NRT	Rohde&Schwarz	825490 / 003
Power Head	NAP-Z5	Rohde&Schwarz	847424 / 027
Field Sensor	HI-4422	Comtest International	96168
O/E Converter	HI-4413P	Comtest International	800—9205
Bilog Antenna	CBL6140	Schaffner Chase EMC	1107
Pulse Generator	2416A	Pragmatic Instruments	818314 820344
Current Sensor Probe	CSP9160	Schaffner Chase EMC	1059
Millivolt Meter	URV55	Rohde&Schwarz	846100 / 028
Insertion Unit	URV5-Z4	Rohde&Schwarz	848566 / 018
Spectrum Analyzer	HP8568B	Hewlett Packard	2517A01396
EM Injection Clamp	T/EM-801-23mm	Fisher Custom Communication	102
Decoupling Network	T/EM-DCN-23mm	Fisher Custom Communication	313
Calibration Fixture	T/EM-801-CF-23mm	Fisher Custom Communication	338
CDN	TCDN-801-M3-32	Fisher Custom Communication	9851
CDN	TCDN-801-S25	Fisher Custom Communication	9850
CDN(Calibration tools)	TCDN-801-150-50	Fisher Custom Communication	9852, 9853

『Test Clause』

EN61000-4-8 : Power-Frequency Magnetic Field Immunity Test

(MFP/Printer : A3 Model)

<i>Equipment</i>	<i>Type</i>	<i>Manufacturer</i>	<i>Serial No.</i>
Immunity Test System	<i>*Handmade</i>	---	---
Coupling Clamp	<i>*Not used</i>	---	---
Magnetic Field Coil	<i>*Handmade</i>	---	---

(MFP/Printer : A4 Model)

<i>Equipment</i>	<i>Type</i>	<i>Manufacturer</i>	<i>Serial No.</i>
Conducted immunity test system	BEST Plus 1	SCHAFFNER	199848-001SC
Magnetic field coil	INA 702	SCHAFFNER	199815-004SC
Coupling clamp	CDN126	SCHAFFNER	130