



TEST REPORT

47 CFR FCC Part 15 Subpart B (Class B)

Radio Frequency Devices – Unintentional Radiators – Limits and methods of measurement

ANSI C63.4: 2009

American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

Report Reference No.....: TRE11100068

FCC ID.....: BBP-MFSP3510SF1

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Wenliang Li

Date of issue.....: Nov 18, 2011

Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd

Address: Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

Testing location/ procedure: Full application of Harmonised standards ☒
Partial application of Harmonised standards ☐
Other standard testing methods ☐

Applicant's name: Ricoh Company Ltd.

Address: 810, Shimoimaizum, Ebina-Shi, Kanagawa-ken, 243-0460 Japan

Test specification:

Standard: 47 CFR FCC Part 15 Subpart B (Class B) ANSI C63.4: 2009

Non-standard test method.....: /

Test Report Form No.....: HTWEMCFCC_1A

TRF Originator: Shenzhen Huatongwei International Inspection Co., Ltd

Master TRF.....: Dated 2006-06

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Test item description: Multifunction Digital Product(Copier/ Printer/Scanner/Fax)

Trade Mark: /

Manufacturer: Ricoh Components & Products(Shenzhen)Ltd.

Model/Type reference.....: Aficio SP 3500SF, SP 3500SF/Aficio SP 3500SF, Aficio SP 3510SF, SP 3510SF/Aficio SP 3510SF

Ratings: 120V 60Hz 10A 850W

Result.....: Positive

EMC -- TEST REPORT

Test Report No. : TRE11100068	Nov 18, 2011
	Date of issue

Equipment under Test : Multifunction Digital Product(Copier/ Printer/Scanner/Fax)

Model / Type : Aficio SP 3500SF, SP 3500SF/Aficio SP 3500SF, Aficio SP 3510SF, SP 3510SF/Aficio SP 3510SF

Listed Model : /

Applicant : Ricoh Company Ltd.

Address : 810, Shimoimaizum, Ebina-Shi, Kanagawa-ken, 243-0460 Japan

Manufacturer : Ricoh Components & Products(Shenzhen)Ltd.

Address : RICOH industry group,Hao Ye Road,Heping Community,Fuyong Town,Baoan Distrist,Shenzhen,Guangdong,China

Test Result according to the standards on page 4:	Positive
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

[47 CFR FCC Part 15 Subpart B \(Class B\)](#) Radio Frequency Devices – Unintentional Radiators – Limits and methods of measurement.

[ANSI C63.4: 2009](#) American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

2. SUMMARY

2.1. General Remarks:

Date of receipt of test sample : Oct 17, 2011

Testing commenced on : Oct 17, 2011

Testing concluded on : Nov 18, 2011

2.2. Equipment under Test

Power supply system utilised

Power supply voltage : ☐ 230V / 50 Hz ☐ 115V / 60Hz
☐ 12 V DC ☐ 24 V DC
☒ Other (specified in blank below)

AC 120V/60Hz

2.3. EUT operation mode:

The equipment under test was operated during the measurement under the following conditions:

Test program (customer specific)

Emissions tests.....: 47 CFR FCC Part 15 Subpart B (Class B) and ANSI C63.4 2009, searching for the highest disturbance.

2.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - supplied by the lab

Test Configuration

1) Equipment under test

Kind of equipment	Manufacturer	Model name	Serial number	Remarks
(1)Print Machine	RICOH	Aficio SP 3510SF	JM119170013	
(2)BANK	RICOH	TK1080	S5918700174	

2) Highest Frequency Generated or Used in The Device or on Which the Device Operates (MHz)

Kind of equipment	Mode name	Operates Frequency	Remark
Print Machine	Aficio SP 3510SF	350MHz	CPU

3) Supporting equipment

Kind of equipment	Manufacturer	Model name	Serial number	Remarks
Notebook	LENOVO	ThinkPad X201i	R8-7DYTX 10/11	
G3 Exchanger	TENDA	PABX	—	
FAX Machine	RICOH	Aficio SP 3510SF	JM119270019	
USB Memory	SanDisk	Cruzer Blade 4GB	—	

4) Cables Used

	Cable Name	Length	Shielded	Maker
1	USB Cable	2m	YES	RICOH
2	NIC Cable	3m	No	Black Box
3	Power Cable	1.8m	No	Volex
4	Modular Cable	2m	No	—

5) Operating modes:

No.	Operating modes	Remarks
1	Standby	
2	Copy	
3	USB Print	
4	NIC Print	
5	USB Scan	
6	NIC Scan	
7	Scan to USB memory	
8	FAX Tx	
9	FAX Rx	

6) Short description of the Equipment under Test (EUT)

The EUT is a Printer.

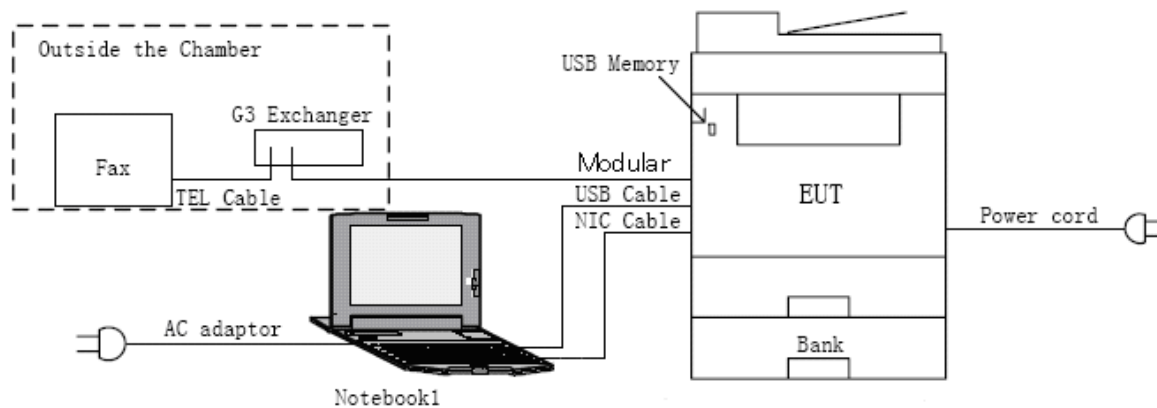
Model Difference: They were similar, except 2 sides as follow.

- ①. Aficio SP 3510SF ,SP 3510SF /Aficio SP 3510SF employed additional Duplex motor for duplex side printing function
- ②. Aficio SP 3510SF ,SP 3510SF /Aficio SP 3510SF employed additional solenoid(in ADF) for duplex side scanning function

Unless otherwise indicated, all tests were conducted on Aficio SP 3510SF.

Tests performed on Aficio SP 3510SF were considered to be representative of SP 3500SF /Aficio SP 3500SF, Aficio SP 3500SF, SP 3510SF /Aficio SP 3510SF.

7) EUT Setup:



3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen Huatongwei International Inspection Co., Ltd
Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China
Phone: 86-755-26715686 Fax: 86-755-26748089

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2009) and CISPR Publication 22.

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: Mar. 30, 2009. Valid time is until Mar. 29, 2012.

A2LA-Lab Cert. No. 2243.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until Sept. 30, 2013.

FCC-Registration No.: 662850

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 662850, Renewal date Jul. 01, 2009, valid time is until Jun. 30, 2012.

IC-Registration No.: 5377A

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on Jan. 25, 2011, valid time is until Jan. 24, 2014.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

NEMKO-Aut. No.: ELA125

Shenzhen Huatongwei International Inspection Co., Ltd has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10, the authorization is valid through July 07, 2013

VCCI

The 3m Semi-anechoic chamber (12.2m×7.95m×6.7m) and Shielded Room (8m×4m×3m) of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-292. Date of Registration: Dec. 24, 2010. Valid time is until Dec. 23, 2013.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: Dec. 20, 2009. Valid time is until Dec. 19, 2012.

Telecommunication Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-1837. Date of Registration: May 07, 2010. Valid time is until May 06, 2013.

DNV

Shenzhen Huatongwei International Inspection Co., Ltd. has been found to comply with the requirements of DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025 (2005), in accordance with the requirements of the DNV Laboratory Quality Manual towards subcontractors. Valid time is until Aug. 24, 2013.

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	<u>15-35 ° C</u>
Humidity:	<u>30-60 %</u>
Atmospheric pressure:	<u>950-1050mbar</u>

3.4. Test Description

Emission Measurement		
Radiated Emission	47 CFR FCC Part 15 Subpart B Class B ANSI C63.4 2009	PASS
Conducted Disturbance	47 CFR FCC Part 15 Subpart B Class B ANSI C63.4 2009	PASS

Remark: The measurement uncertainty is not included in the test result.

3.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.24dB	(1)
Radiated Emission	1G~2G	5.16dB	(1)
Conducted Disturbance	0.15~30 MHz	3.39dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.6. Equipments Used during the Test

Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ULTRA-BROADBAND ANTENNA	Rohde & Schwarz	HL562	100015	2011/05/30
2	EMI TEST RECEIVER	Rohde & Schwarz	ESI 26	100009	2011/10/24
3	RF TEST PANEL	Rohde & Schwarz	TS / RSP	335015/ 0017	2011/10/24
4	TURNTABLE	ETS	2088	2149	2011/10/24
5	ANTENNA MAST	ETS	2075	2346	2011/10/24
6	EMI TEST SOFTWARE	Rohde & Schwarz	ESK1	N/A	2011/10/24
7	Double-Ridged-Waveguide Horn Antenna	Rohde & Schwarz	HF906	100039	2011/10/24
8	Semi-anechoic chamber	ETS-LINDGREN	AJ 593 HTW	N/A	2011/06/12

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	Rohde & Schwarz	ESCS30	100038	2011/10/24
2	Artificial Mains	Rohde & Schwarz	ESH2-Z5	100028	2011/10/24
3	Artificial Mains	Rohde & Schwarz	ESH3-Z5	100040	2011/10/24
4	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100044	2011/10/24
5	EMI Test Software	Rohde & Schwarz	ESK1	N/A	2011/10/24
6	2# shielded room	ETS-LINDGREN	RFD-100	2406	N/A

4. TEST CONDITIONS AND RESULTS

4.1. Radiated Emission

For test instruments and accessories used see section 3.6.

4.1.1. Description of the test location

Test location: Shielded room No. 4

4.1.2. Limits of disturbance

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dB μ V/m)	
30 ~ 88	3	40	
88~216	3	43.5	
216 ~ 960	3	46	
960-1000	3	54	
1000-2000	3	74(PK)	54(AV)

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

(3)The highest frequency of the internal sources of the EUT is 350MHz, so the measurement was made up to 2 GHz.

4.1.3. Description of the test set-up

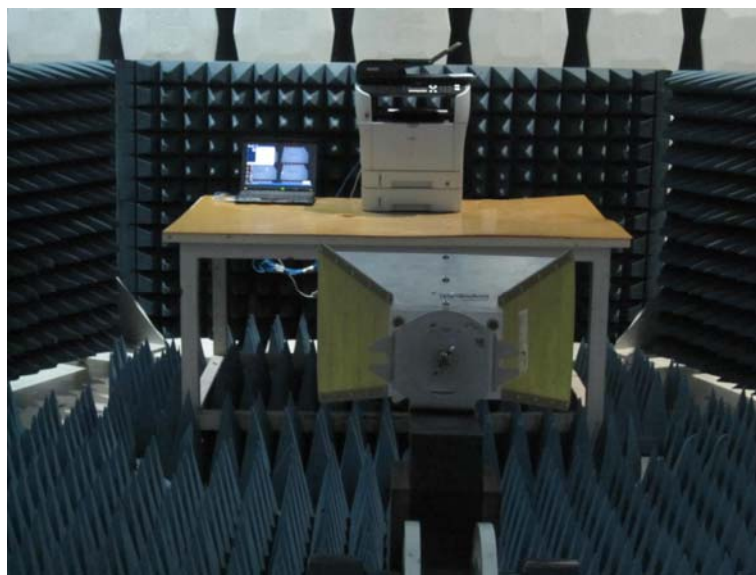
4.1.3.1. Operating Condition

The EUT is set to work that shall be carried out respectively standby, USB print and NIC print modes during the test and the results of the maximum emanation are recorded.

4.1.3.2. Test Configuration and Procedure

Test is carried out in Semi-Anechoic Chamber. EUT is placed on a nonmetal table which is 0.8 meter above a grounded turntable. EUT is set 3 meters away from the center of receiving antenna. The turntable can rotate 360 degrees to determine the azimuth of the maximum emission level and then the antenna can move up and down from 1 to 4 meter to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna are set on the test.

4.1.3.3. Photos of the test set-up



4.1.4. Test result

The requirements are **Fulfilled**

Band Width: 120 KHz

Frequency Range: 30MHz to 1000MHz

Band Width: 1MHz

Frequency Range: 1G-2G

Remarks: The limits are kept. For detailed results, please see the following page(s).

Margin=limit-level

Level=read value+transducer

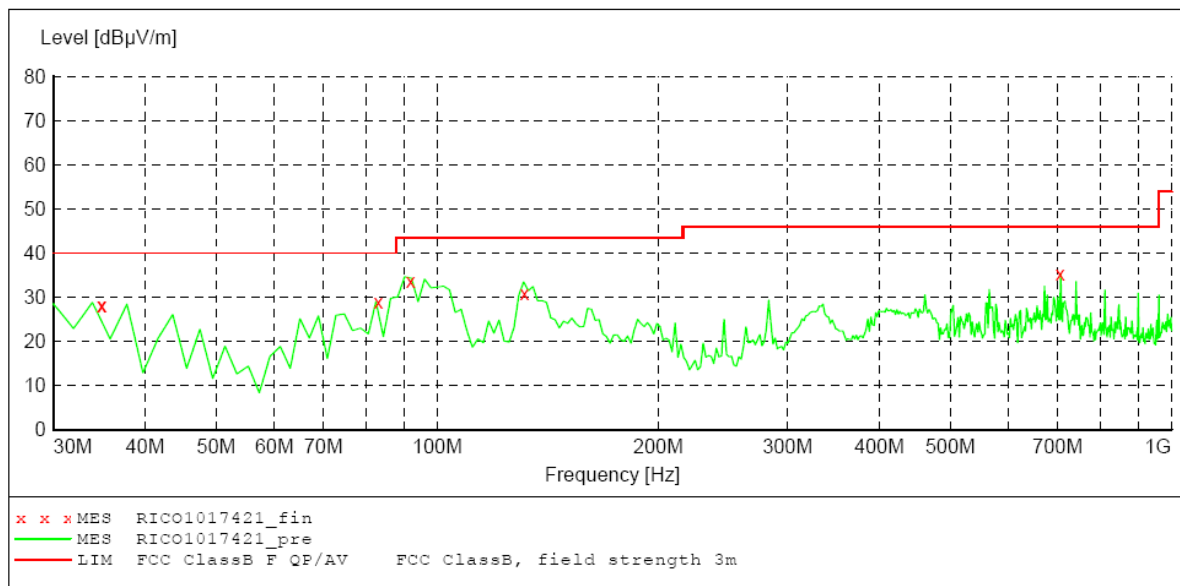
Transducer=antenna factor+pre-amplifier factor+cable loss (with 6db attenuator)

mode 1: STANDBY (30MHz-1000MHz)**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD****RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: STANDBY
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 6:23:13PM

SCAN TABLE: "test Field(30M-1G)QP"

Short Description:		Field Strength(30M-1G)				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562 201106

**MEASUREMENT RESULT: "RICO1017421_fin"**

10/17/2011 6:30PM

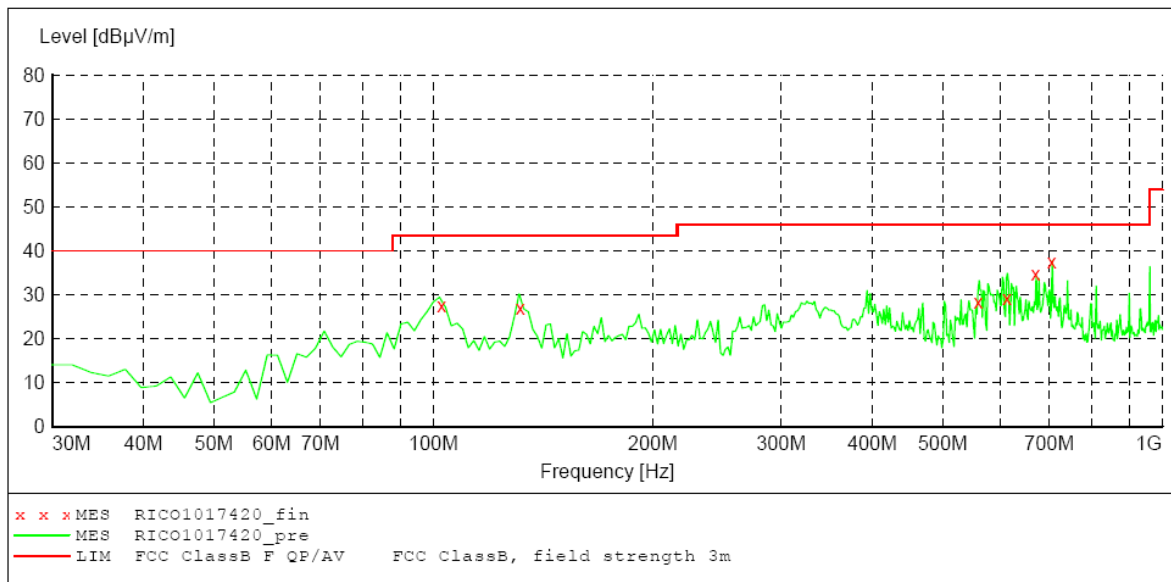
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
34.920000	28.00	-24.7	40.0	12.0	QP	100.0	149.00	VERTICAL
34.980000	28.10	-24.7	40.0	11.9	QP	100.0	126.00	VERTICAL
83.160000	28.80	-32.4	40.0	11.2	QP	100.0	270.00	VERTICAL
92.040000	33.50	-31.1	43.5	10.0	QP	100.0	169.00	VERTICAL
131.580000	30.80	-31.7	43.5	12.7	QP	100.0	156.00	VERTICAL
705.600000	35.20	-20.9	46.0	10.8	QP	100.0	245.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: STANDBY
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 6:14:17PM

SCAN TABLE: "test Field(30M-1G)QP"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 201106

**MEASUREMENT RESULT: "RICO1017420_fin"**

10/17/2011 6:22PM

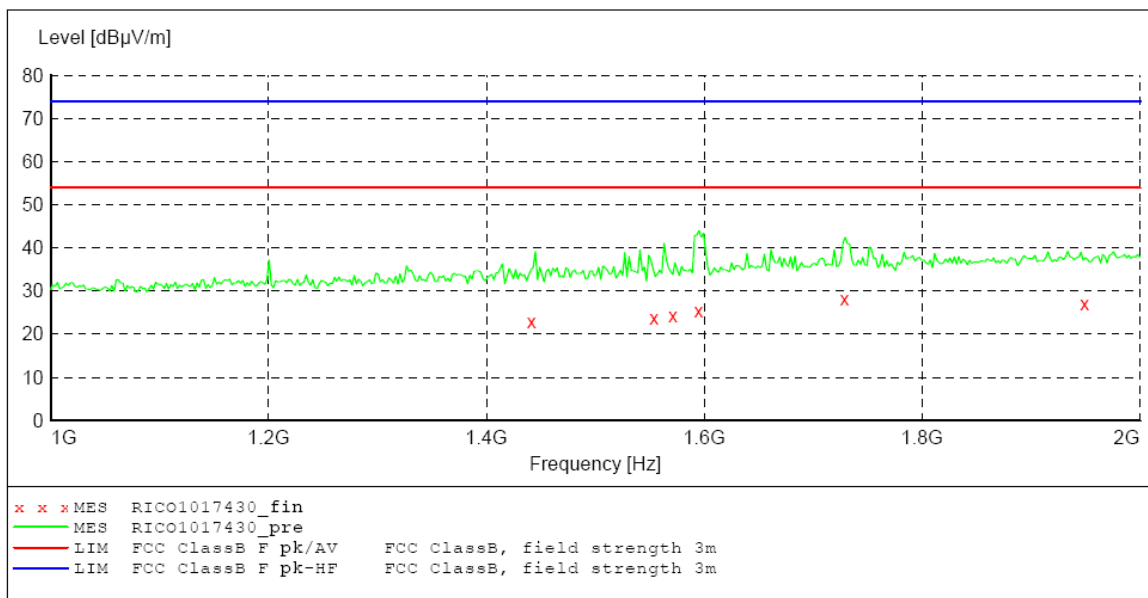
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
102.660000	27.50	-30.8	43.5	16.0	QP	334.0	105.00	HORIZONTAL
131.640000	26.90	-31.7	43.5	16.6	QP	280.0	49.00	HORIZONTAL
559.380000	28.30	-24.4	46.0	17.7	QP	150.0	180.00	HORIZONTAL
612.360000	29.20	-22.8	46.0	16.8	QP	100.0	162.00	HORIZONTAL
670.320000	34.80	-20.7	46.0	11.2	QP	114.0	189.00	HORIZONTAL
705.600000	37.50	-20.9	46.0	8.5	QP	100.0	190.00	HORIZONTAL

mode 1: STANDBY (1000MHz-2000MHz)**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD****RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: STANDBY
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 7:57:23PM

SCAN TABLE: "test Field(1G-18G)AV"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width kHz Average Time Bandw.
 1.0 GHz 18.0 GHz 500.0 kHz Average 1.0 s 1 MHz HF906 2011

**MEASUREMENT RESULT: "RICO1017430_fin"**

10/17/2011 8:01PM

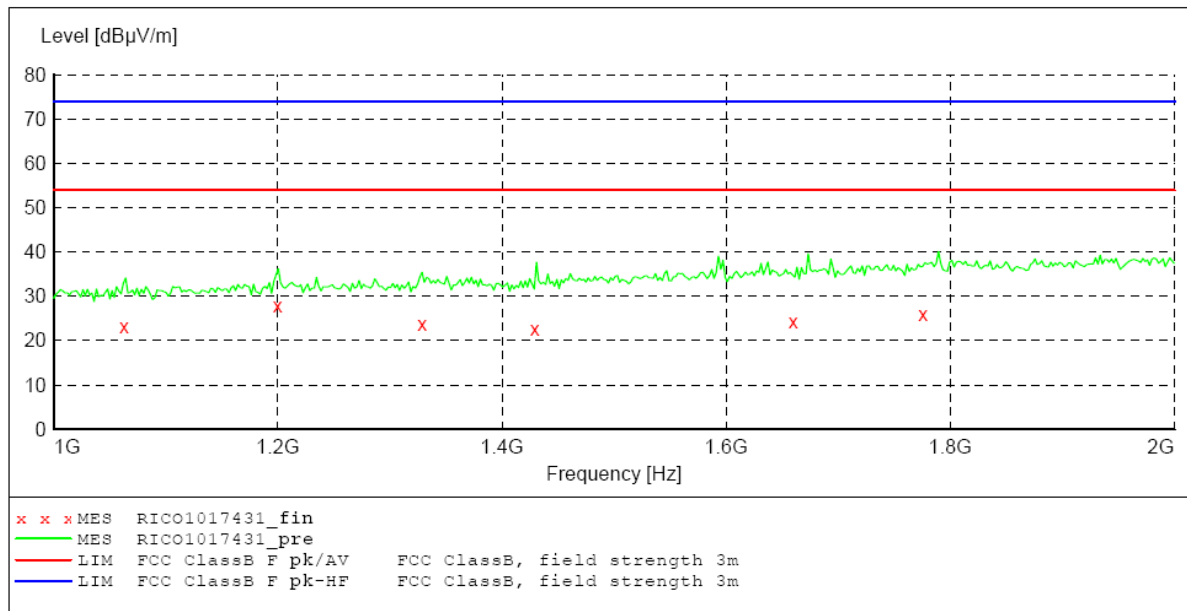
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1441.500000	23.00	-6.3	54.0	31.0	AV	100.0	243.00	VERTICAL
1554.000000	23.70	-5.4	54.0	30.3	AV	100.0	259.00	VERTICAL
1571.500000	24.30	-5.3	54.0	29.7	AV	100.0	249.00	VERTICAL
1595.000000	25.40	-5.0	54.0	28.6	AV	100.0	244.00	VERTICAL
1729.000000	28.10	-3.7	54.0	25.9	AV	100.0	261.00	VERTICAL
1949.500000	27.20	-1.9	54.0	26.8	AV	100.0	168.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: STANDBY
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 8:04:50PM

SCAN TABLE: "test Field(1G-18G)AV"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 1.0 GHz 18.0 GHz 500.0 kHz Average 1.0 s 1 MHz HF906 2011

**MEASUREMENT RESULT: "RICO1017431_fin"**

10/17/2011 8:09PM

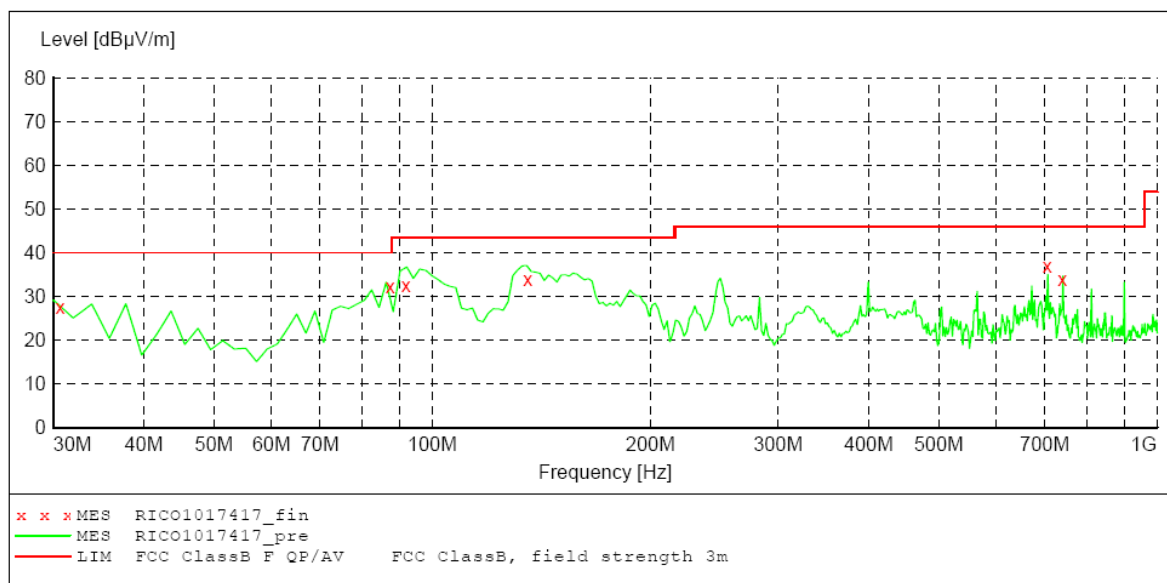
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1063.000000	23.30	-9.2	54.0	30.7	AV	100.0	233.00	HORIZONTAL
1200.000000	27.80	-8.1	54.0	26.2	AV	100.0	216.00	HORIZONTAL
1329.000000	23.80	-7.1	54.0	30.2	AV	100.0	283.00	HORIZONTAL
1429.500000	22.70	-6.4	54.0	31.3	AV	100.0	266.00	HORIZONTAL
1660.000000	24.40	-4.4	54.0	29.6	AV	100.0	208.00	HORIZONTAL
1776.000000	26.00	-3.3	54.0	28.0	AV	100.0	200.00	HORIZONTAL

mode 2: COPY (30MHz-1000MHz)**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD****RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: COPY
Test Site: 3M CHAMBER
Operator: FIYO
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/17/2011 / 5:45:16PM

SCAN TABLE: "test Field(30M-1G)OP"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562 201106

**MEASUREMENT RESULT: "RICO1017417_fin"**

10/17/2011 5:54PM

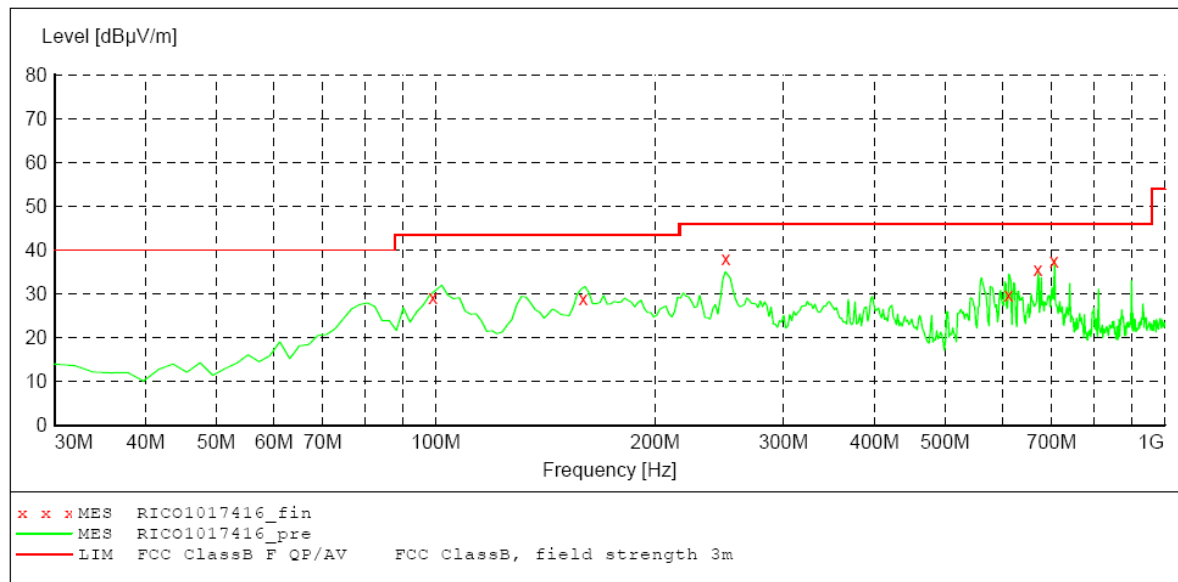
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.660000	27.50	-22.5	40.0	12.5	QP	99.0	152.00	VERTICAL
87.480000	32.30	-31.6	40.0	7.7	QP	99.0	148.00	VERTICAL
91.980000	32.60	-31.1	43.5	10.9	QP	150.0	177.00	VERTICAL
135.540000	33.90	-32.1	43.5	9.6	QP	150.0	99.00	VERTICAL
705.600000	36.90	-20.9	46.0	9.1	QP	118.0	221.00	VERTICAL
740.880000	34.00	-21.0	46.0	12.0	QP	100.0	248.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: COPY
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 5:36:28PM

SCAN TABLE: "test Field(30M-1G)OP"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 201106

**MEASUREMENT RESULT: "RICO1017416_fin"**

10/17/2011 5:44PM

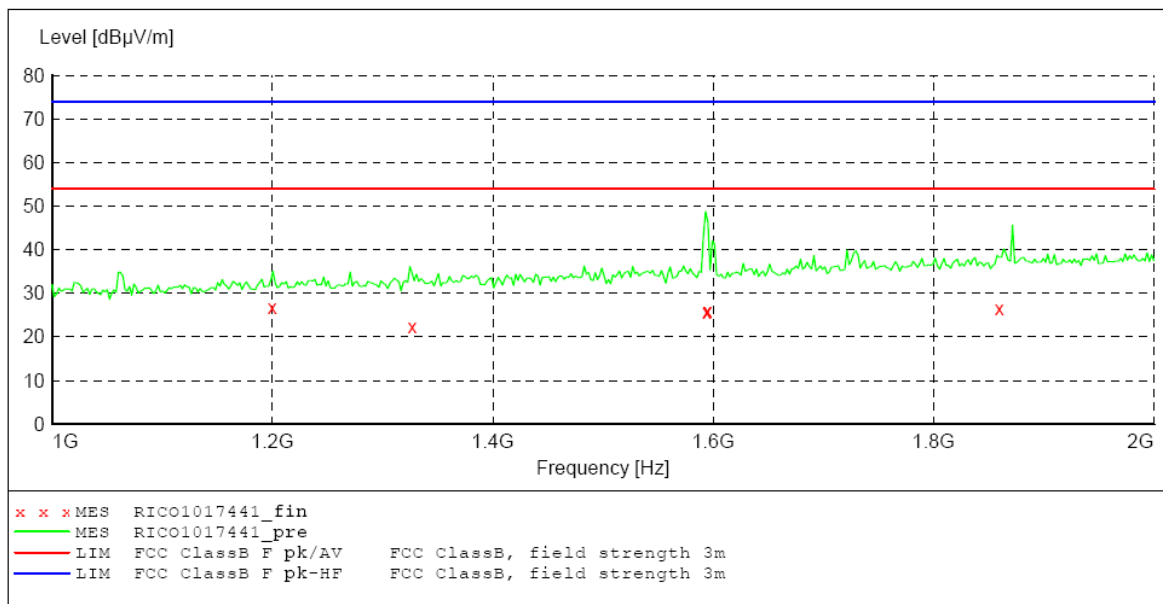
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
99.180000	29.20	-30.9	43.5	14.3	QP	350.0	94.00	HORIZONTAL
159.480000	28.90	-34.0	43.5	14.6	QP	100.0	221.00	HORIZONTAL
250.080000	38.10	-29.6	46.0	7.9	QP	100.0	288.00	HORIZONTAL
611.280000	29.80	-22.9	46.0	16.2	QP	100.0	228.00	HORIZONTAL
670.320000	35.50	-20.7	46.0	10.5	QP	99.0	144.00	HORIZONTAL
705.600000	37.50	-20.9	46.0	8.5	QP	100.0	192.00	HORIZONTAL

mode 2: Copy (1000MHz-2000MHz)**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD****RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: COPY
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 9:22:04PM

SCAN TABLE: "test Field(1G-18G)AV"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 1.0 GHz 18.0 GHz 500.0 kHz Average 1.0 s 1 MHz HF906 2011

**MEASUREMENT RESULT: "RICO1017441_fin"**

10/17/2011 9:32PM

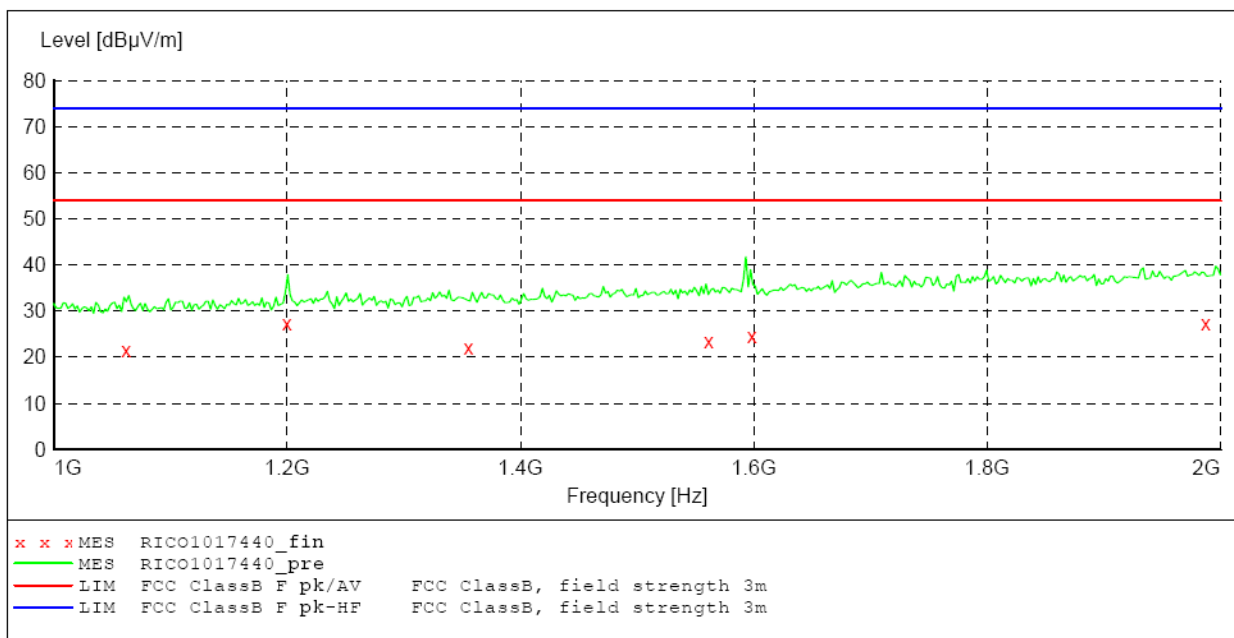
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1200.000000	26.70	-8.1	54.0	27.3	AV	100.0	219.00	VERTICAL
1327.000000	22.40	-7.1	54.0	31.6	AV	100.0	301.00	VERTICAL
1594.500000	25.80	-5.0	54.0	28.2	AV	100.0	257.00	VERTICAL
1595.000000	26.00	-5.0	54.0	28.0	AV	100.0	252.00	VERTICAL
1595.000000	25.90	-5.0	54.0	28.1	AV	100.0	244.00	VERTICAL
1860.000000	26.50	-2.6	54.0	27.5	AV	100.0	360.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: COPY
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 9:15:29PM

SCAN TABLE: "test Field(1G-18G)AV"

Short Description:		Field Strength(30M-1G)					
Start	Stop	Step	Detector	Meas.	IF	Transducer	
Frequency	Frequency	Width		Time	Bandw.		
1.0 GHz	18.0 GHz	500.0 kHz	Average	1.0 s	1 MHz	HF906 2011	

**MEASUREMENT RESULT: "RICO1017440_fin"**

10/17/2011 9:19PM

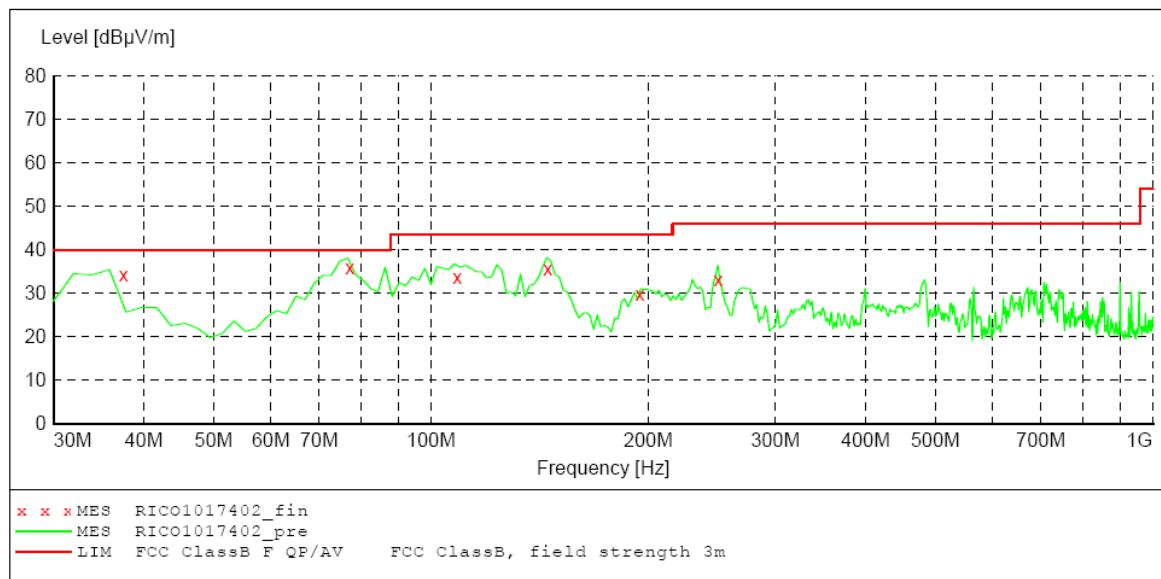
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1062.000000	21.50	-9.2	54.0	32.5	AV	100.0	236.00	HORIZONTAL
1200.000000	27.30	-8.1	54.0	26.7	AV	100.0	205.00	HORIZONTAL
1355.500000	22.10	-6.9	54.0	31.9	AV	100.0	213.00	HORIZONTAL
1561.500000	23.60	-5.4	54.0	30.4	AV	100.0	66.00	HORIZONTAL
1598.500000	24.60	-5.0	54.0	29.4	AV	100.0	205.00	HORIZONTAL
1987.500000	27.50	-1.5	54.0	26.5	AV	100.0	78.00	HORIZONTAL

mode 3: USB PRINT (30MHz-1000MHz)**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD****RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: usb print
Test Site: 3M CHAMBER
Operator: MINGHUA.FAN
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/17/2011 / 3:48:58PM

SCAN TABLE: "test Field(30M-1G)OP"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562 201106

**MEASUREMENT RESULT: "RICO1017402_fin"**

10/17/2011 3:56PM

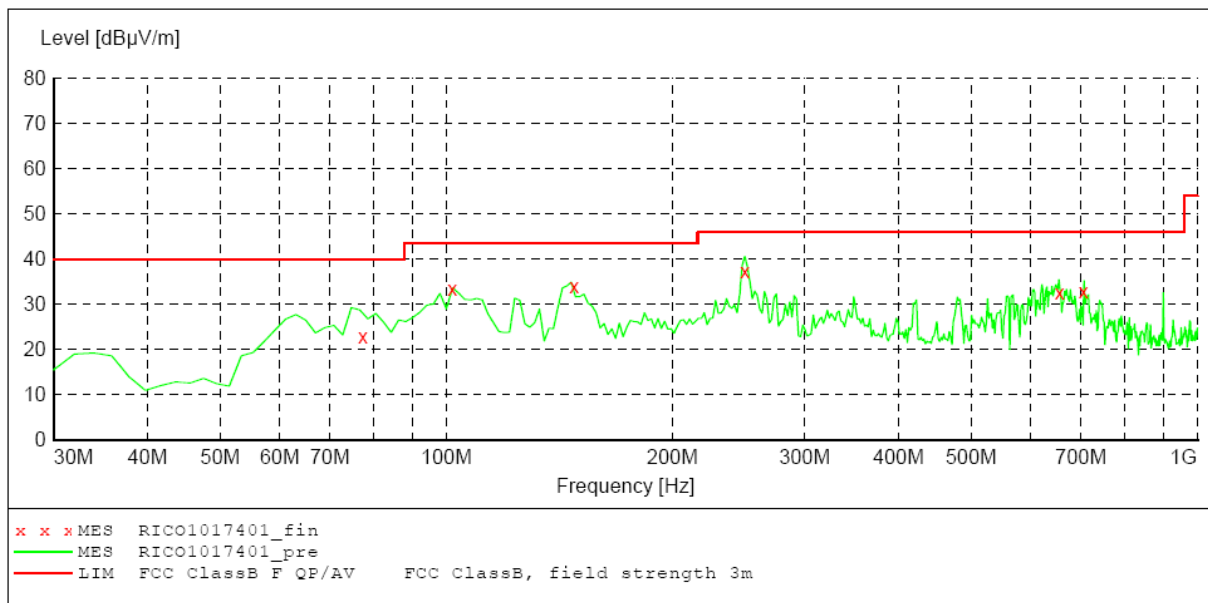
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
37.500000	34.30	-26.0	40.0	5.7	QP	100.0	138.00	VERTICAL
77.220000	36.00	-33.2	40.0	4.0	QP	100.0	220.00	VERTICAL
108.840000	33.60	-30.6	43.5	9.9	QP	140.0	205.00	VERTICAL
145.260000	35.50	-33.4	43.5	8.0	QP	101.0	149.00	VERTICAL
194.820000	29.90	-32.9	43.5	13.6	QP	100.0	226.00	VERTICAL
250.020000	33.00	-29.6	46.0	13.0	QP	100.0	191.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: usb print
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 3:37:35PM

SCAN TABLE: "test Field(30M-1G)OP"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 201106

**MEASUREMENT RESULT: "RICO1017401_fin"**

10/17/2011 3:47PM

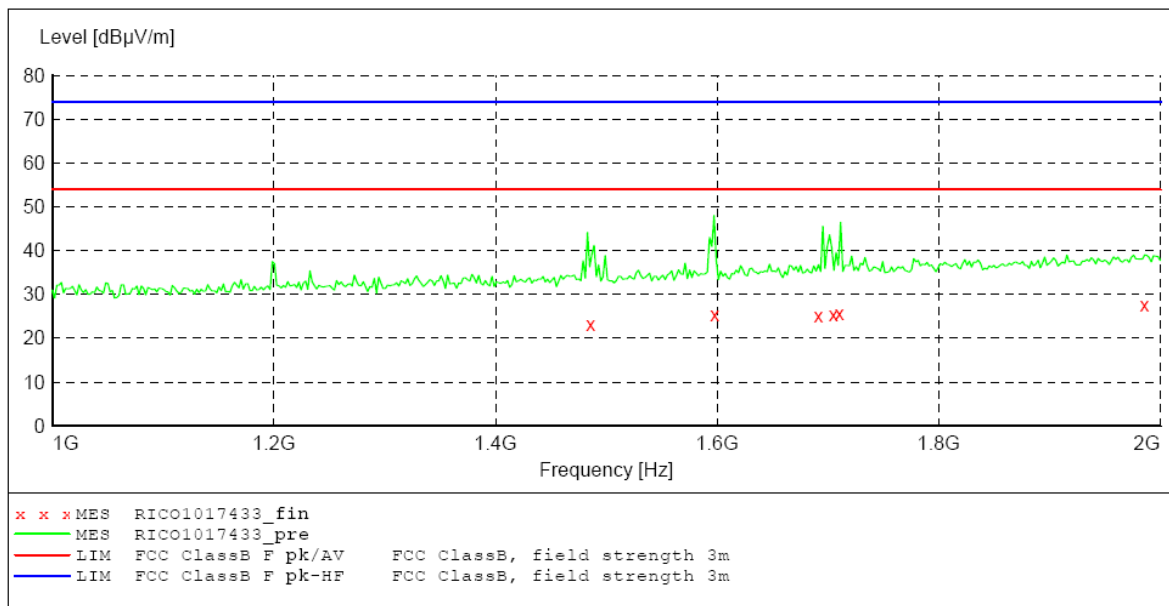
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
77.460000	23.00	-33.2	40.0	17.0	QP	302.0	176.00	HORIZONTAL
101.880000	33.40	-30.8	43.5	10.1	QP	350.0	325.00	HORIZONTAL
148.080000	34.10	-33.5	43.5	9.4	QP	250.0	300.00	HORIZONTAL
249.960000	37.40	-29.6	46.0	8.6	QP	142.0	258.00	HORIZONTAL
655.260000	32.60	-21.2	46.0	13.4	QP	100.0	168.00	HORIZONTAL
705.540000	32.90	-20.9	46.0	13.1	QP	100.0	143.00	HORIZONTAL

mode 3: USB PRINT (1000MHz-2000MHz)**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD****RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: USB PRINT
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 8:19:16PM

SCAN TABLE: "test Field(1G-18G)AV"

Short Description:		Field Strength(30M-1G)				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
1.0 GHz	18.0 GHz	500.0 kHz	Average	1.0 s	1 MHz	HF906 2011

**MEASUREMENT RESULT: "RICO1017433_fin"**

10/17/2011 8:23PM

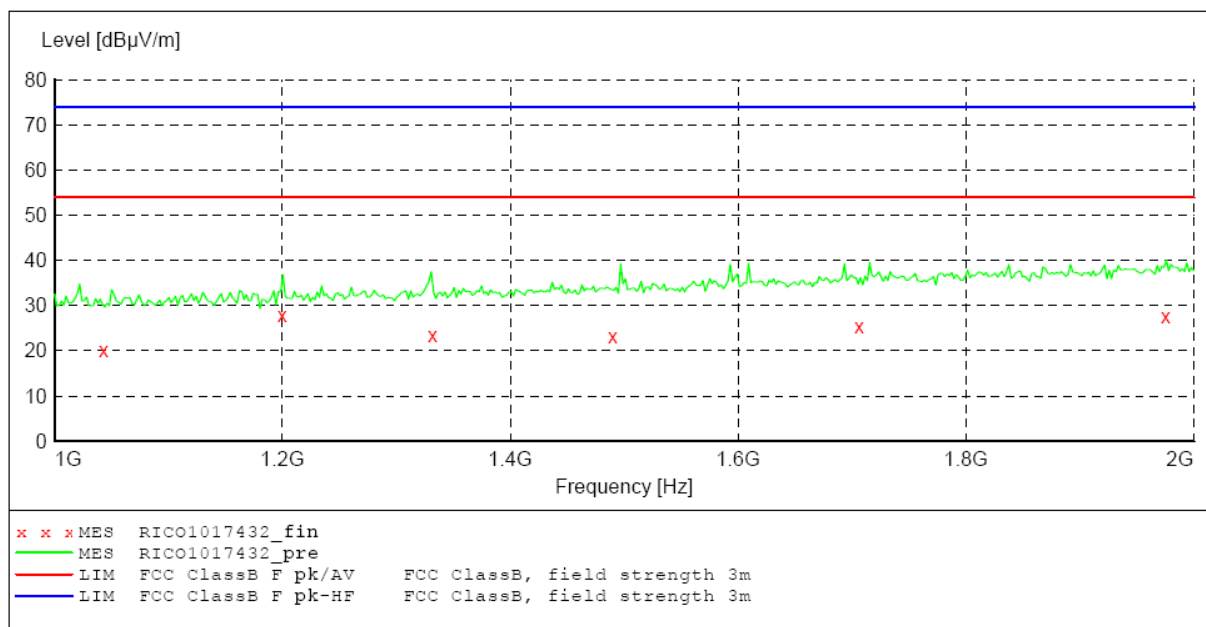
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1486.000000	23.30	-6.1	54.0	30.7	AV	100.0	237.00	VERTICAL
1598.000000	25.40	-5.0	54.0	28.6	AV	100.0	251.00	VERTICAL
1691.500000	25.10	-4.0	54.0	28.9	AV	100.0	262.00	VERTICAL
1705.000000	25.30	-3.9	54.0	28.7	AV	100.0	261.00	VERTICAL
1710.500000	25.60	-3.8	54.0	28.4	AV	100.0	259.00	VERTICAL
1986.000000	27.70	-1.5	54.0	26.3	AV	100.0	20.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: USB PRINT
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 8:12:16PM

SCAN TABLE: "test Field(1G-18G)AV"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 1.0 GHz 18.0 GHz 500.0 kHz Average 1.0 s 1 MHz HF906 2011

**MEASUREMENT RESULT: "RICO1017432_fin"**

10/17/2011 8:16PM

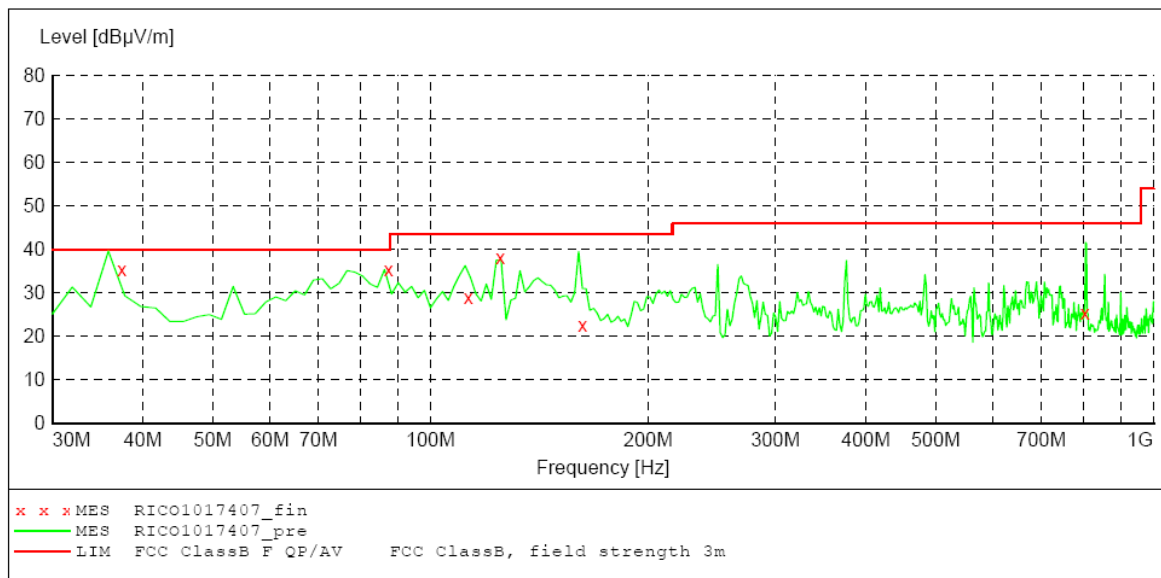
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1043.000000	20.30	-9.4	54.0	33.7	AV	100.0	246.00	HORIZONTAL
1200.000000	27.90	-8.1	54.0	26.1	AV	100.0	221.00	HORIZONTAL
1332.000000	23.60	-7.1	54.0	30.4	AV	100.0	281.00	HORIZONTAL
1490.000000	23.10	-6.0	54.0	30.9	AV	100.0	240.00	HORIZONTAL
1706.500000	25.30	-3.9	54.0	28.7	AV	100.0	200.00	HORIZONTAL
1975.500000	27.70	-1.6	54.0	26.3	AV	100.0	259.00	HORIZONTAL

mode 4: NIC PRINT (30MHz-1000MHz)**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD****RADIATED EMISSION FCC PART 15 B**

EUT: M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: NIC PRINT
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 4:39:30PM

SCAN TABLE: "test Field(30M-1G)OP"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 201106

**MEASUREMENT RESULT: "RICO1017407_fin"**

10/17/2011 4:52PM

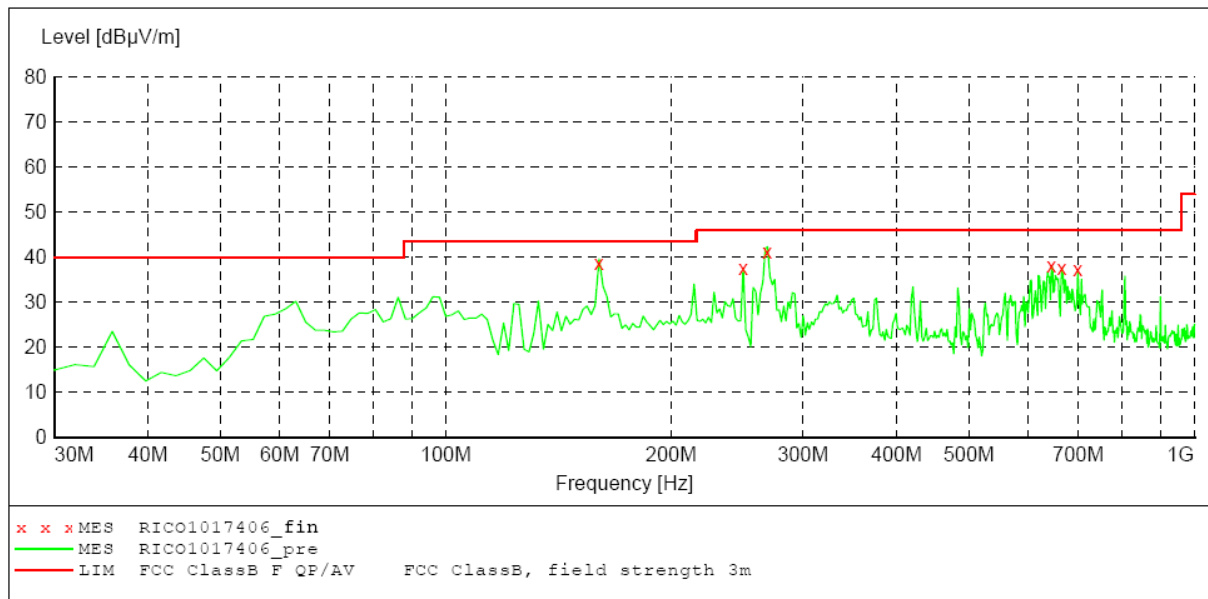
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
37.440000	35.20	-26.0	40.0	4.8	QP	100.0	149.00	VERTICAL
87.480000	35.40	-31.6	40.0	4.6	QP	100.0	165.00	VERTICAL
112.800000	28.90	-30.6	43.5	14.6	QP	100.0	252.00	VERTICAL
124.980000	38.20	-30.7	43.5	5.3	QP	100.0	216.00	VERTICAL
162.360000	22.70	-34.2	43.5	20.8	QP	100.0	241.00	VERTICAL
804.360000	25.50	-19.9	46.0	20.5	QP	100.0	258.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: NIC PRINT
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 4:34:26PM

SCAN TABLE: "test (30M-1G)OP"

Short Description:		Field Strength			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
30.0 MHz	1.0 GHz	MaxPeak	Coupled	120 kHz	HL562 201106

**MEASUREMENT RESULT: "RICO1017406_fin"**

10/17/2011 4:54PM

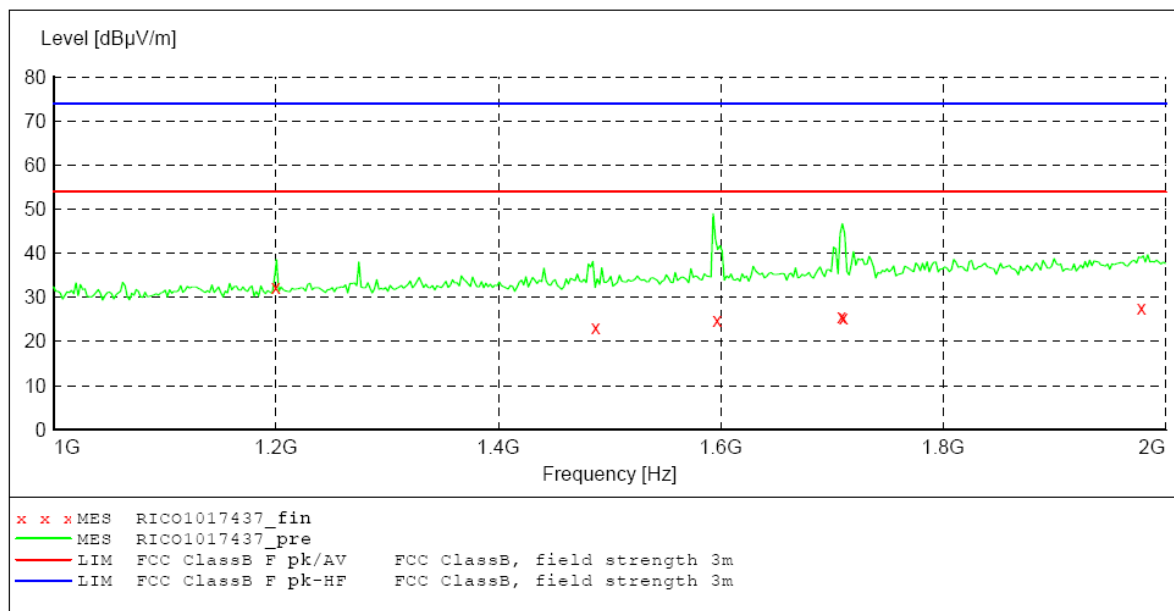
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
160.240481	38.60	-34.0	43.5	4.9	QP	300.0	152.00	HORIZONTAL
249.659319	37.60	-29.6	46.0	8.4	QP	100.0	241.00	HORIZONTAL
269.098196	41.30	-29.1	46.0	4.7	QP	100.0	177.00	HORIZONTAL
644.268537	38.10	-21.6	46.0	7.9	QP	100.0	177.00	HORIZONTAL
665.651303	37.60	-20.8	46.0	8.4	QP	100.0	146.00	HORIZONTAL
698.697395	37.20	-21.0	46.0	8.8	QP	300.0	331.00	HORIZONTAL

mode 4: NIC PRINT (1000MHz-2000MHz)**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD****RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: NIC PRINT
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 8:49:38PM

SCAN TABLE: "test Field(1G-18G)AV"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 1.0 GHz 18.0 GHz 500.0 kHz Average 1.0 s 1 MHz HF906 2011

**MEASUREMENT RESULT: "RICO1017437_fin"**

10/17/2011 8:55PM

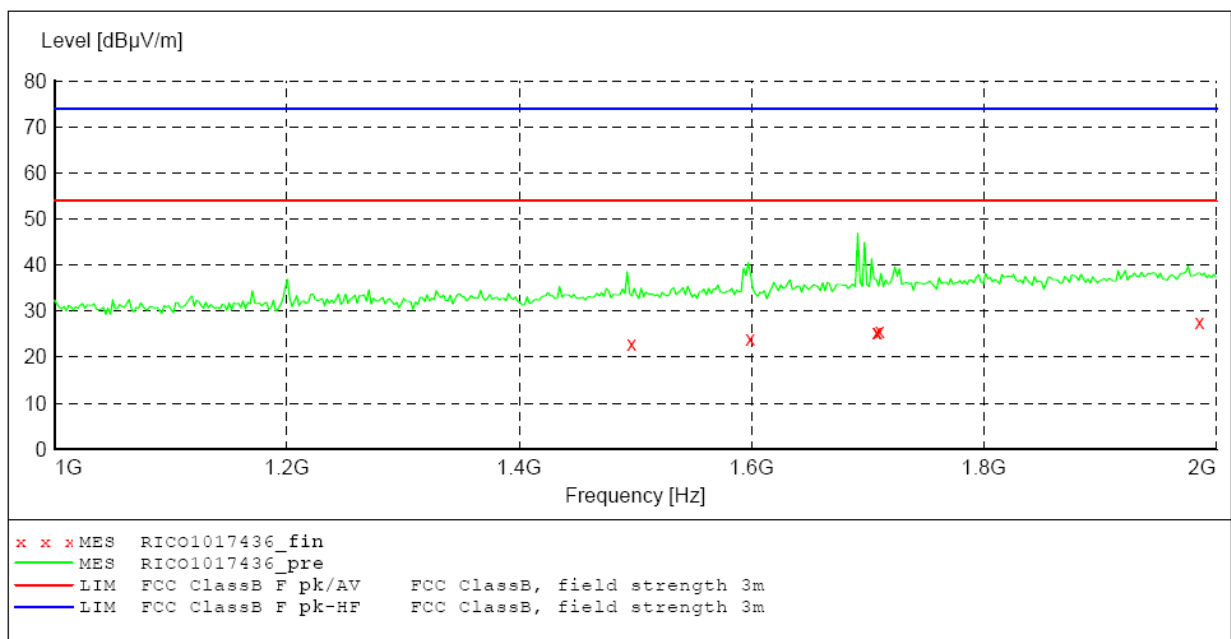
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1200.000000	32.40	-8.1	54.0	21.6	AV	100.0	221.00	VERTICAL
1487.500000	23.20	-6.0	54.0	30.8	AV	100.0	246.00	VERTICAL
1597.000000	24.90	-5.0	54.0	29.1	AV	100.0	256.00	VERTICAL
1709.000000	25.60	-3.9	54.0	28.4	AV	100.0	251.00	VERTICAL
1710.500000	25.50	-3.8	54.0	28.5	AV	100.0	184.00	VERTICAL
1978.500000	27.60	-1.6	54.0	26.4	AV	100.0	156.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: NIC PRINT
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 8:42:49PM

SCAN TABLE: "test Field(1G-18G)AV"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 1.0 GHz 18.0 GHz 500.0 kHz Average 1.0 s 1 MHz HF906 2011

**MEASUREMENT RESULT: "RICO1017436_fin"**

10/17/2011 8:46PM

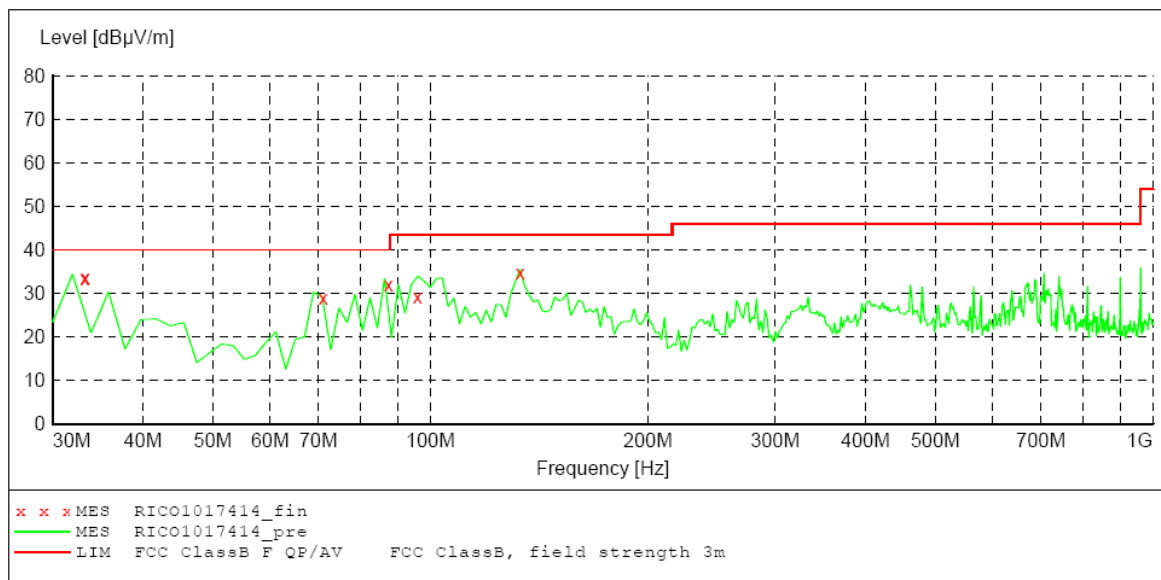
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1497.000000	22.90	-6.0	54.0	31.1	AV	100.0	176.00	HORIZONTAL
1599.000000	24.10	-5.0	54.0	29.9	AV	100.0	148.00	HORIZONTAL
1708.000000	25.50	-3.9	54.0	28.5	AV	100.0	144.00	HORIZONTAL
1708.500000	25.50	-3.9	54.0	28.5	AV	100.0	140.00	HORIZONTAL
1710.500000	25.60	-3.8	54.0	28.4	AV	100.0	141.00	HORIZONTAL
1986.000000	27.70	-1.5	54.0	26.3	AV	100.0	129.00	HORIZONTAL

mode 5: USB SCAN (30MHz-1000MHz)**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD****RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: USB SCAN
 Test Site: 3M CHAMBER
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 5:15:53PM

SCAN TABLE: "test Field(30M-1G)QP"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 201106

**MEASUREMENT RESULT: "RICO1017414_fin"**

10/17/2011 5:23PM

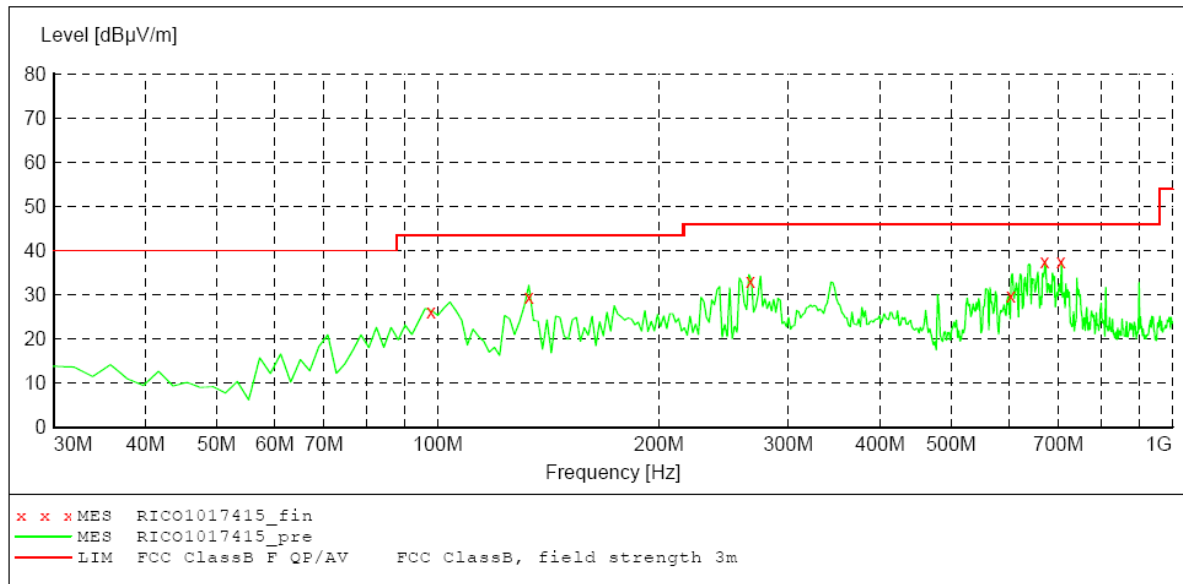
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
33.240000	33.30	-23.8	40.0	6.7	QP	99.0	161.00	VERTICAL
33.300000	33.70	-23.9	40.0	6.3	QP	100.0	185.00	VERTICAL
71.040000	28.80	-33.9	40.0	11.2	QP	100.0	267.00	VERTICAL
87.540000	31.90	-31.6	40.0	8.1	QP	101.0	161.00	VERTICAL
96.000000	29.20	-30.9	43.5	14.3	QP	100.0	166.00	VERTICAL
133.200000	34.60	-31.8	43.5	8.9	QP	100.0	225.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: USB SCAN
Test Site: 3M CHAMBER
Operator: MINGHUA.FAN
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/17/2011 / 5:27:37PM

SCAN TABLE: "test Field(30M-1G)QP"

Short Description:	Field Strength(30M-1G)
Start Stop Step Detector Meas. IF Transducer	
Frequency Frequency Width Time Bandw.	
30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 201106	

**MEASUREMENT RESULT: "RICO1017415_fin"**

10/17/2011 5:34PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
97.920000	26.00	-30.9	43.5	17.5	QP	338.0	70.00	HORIZONTAL
133.140000	29.50	-31.8	43.5	14.0	QP	290.0	52.00	HORIZONTAL
266.580000	33.00	-29.1	46.0	13.0	QP	99.0	202.00	HORIZONTAL
603.120000	29.70	-23.4	46.0	16.3	QP	101.0	175.00	HORIZONTAL
670.320000	37.50	-20.7	46.0	8.5	QP	100.0	140.00	HORIZONTAL
705.600000	37.60	-20.9	46.0	8.4	QP	99.0	191.00	HORIZONTAL

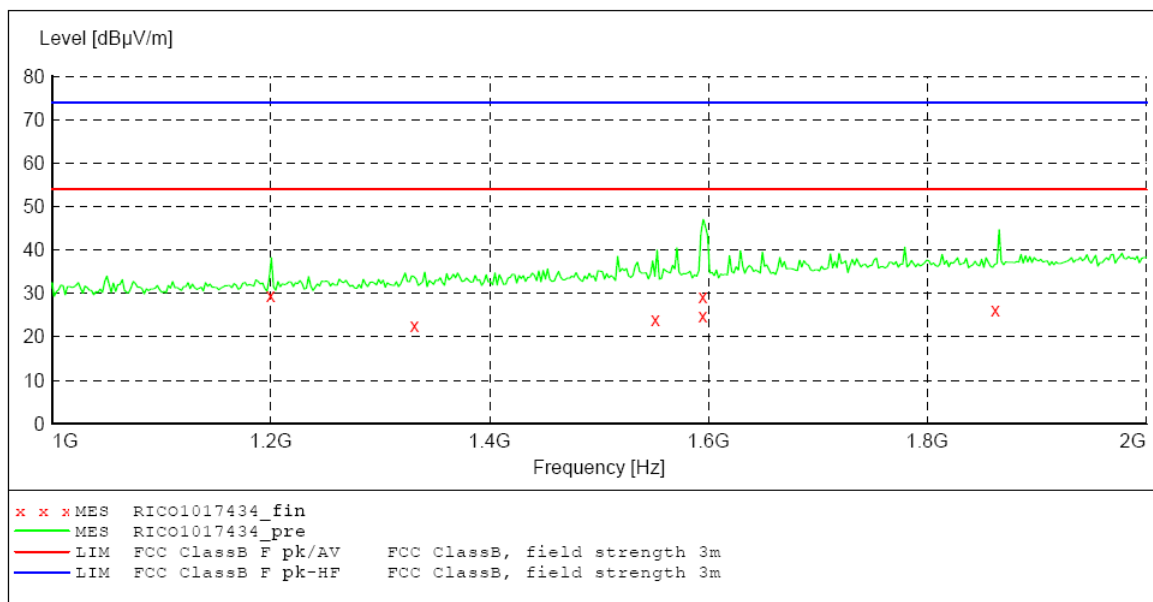
mode 5: USB SCAN (1000MHz-2000MHz)**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD****RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: USB SCAN
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 8:27:17PM

SCAN TABLE: "test Field(1G-18G)AV"

Short Description: Field Strength(30M-1G)

Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
1.0 GHz	18.0 GHz	500.0 kHz	Average	1.0 s	1 MHz	HF906 2011

**MEASUREMENT RESULT: "RICO1017434_fin"**

10/17/2011 8:31PM

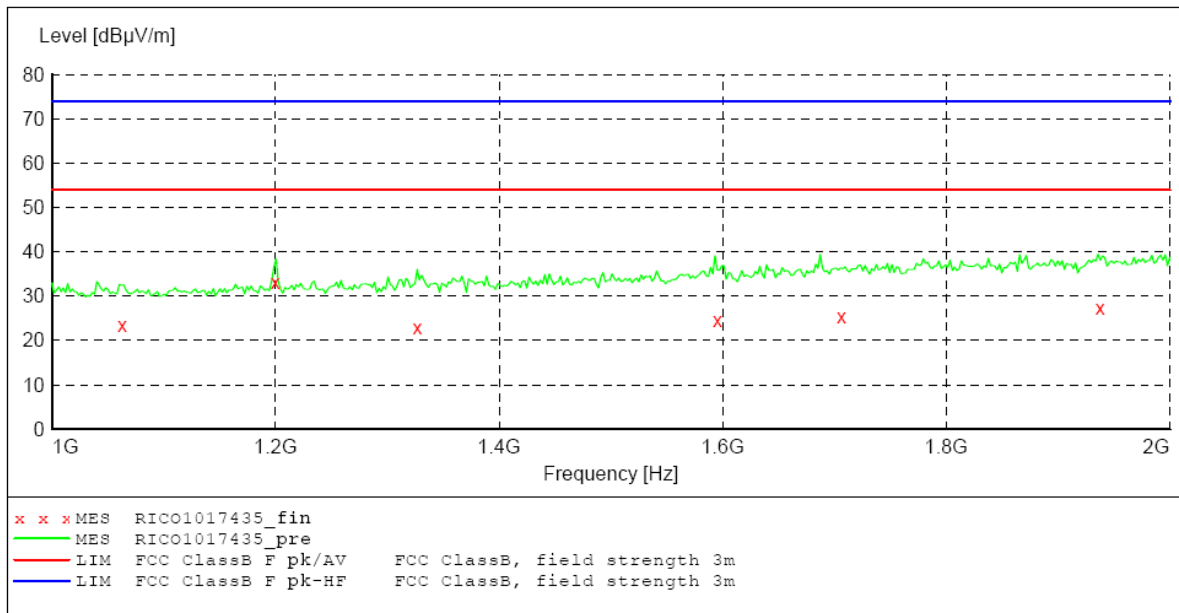
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1200.000000	29.60	-8.1	54.0	24.4	AV	100.0	224.00	VERTICAL
1331.500000	22.70	-7.1	54.0	31.3	AV	100.0	304.00	VERTICAL
1551.500000	24.00	-5.5	54.0	30.0	AV	100.0	247.00	VERTICAL
1595.000000	29.30	-5.0	54.0	24.7	AV	100.0	243.00	VERTICAL
1595.000000	24.90	-5.0	54.0	29.1	AV	100.0	229.00	VERTICAL
1862.500000	26.30	-2.6	54.0	27.7	AV	100.0	190.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: USB SCAN
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 8:34:32PM

SCAN TABLE: "test Field(1G-18G)AV"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 1.0 GHz 18.0 GHz 500.0 kHz Average 1.0 s 1 MHz HF906 2011

**MEASUREMENT RESULT: "RICO1017435_fin"**

10/17/2011 8:38PM

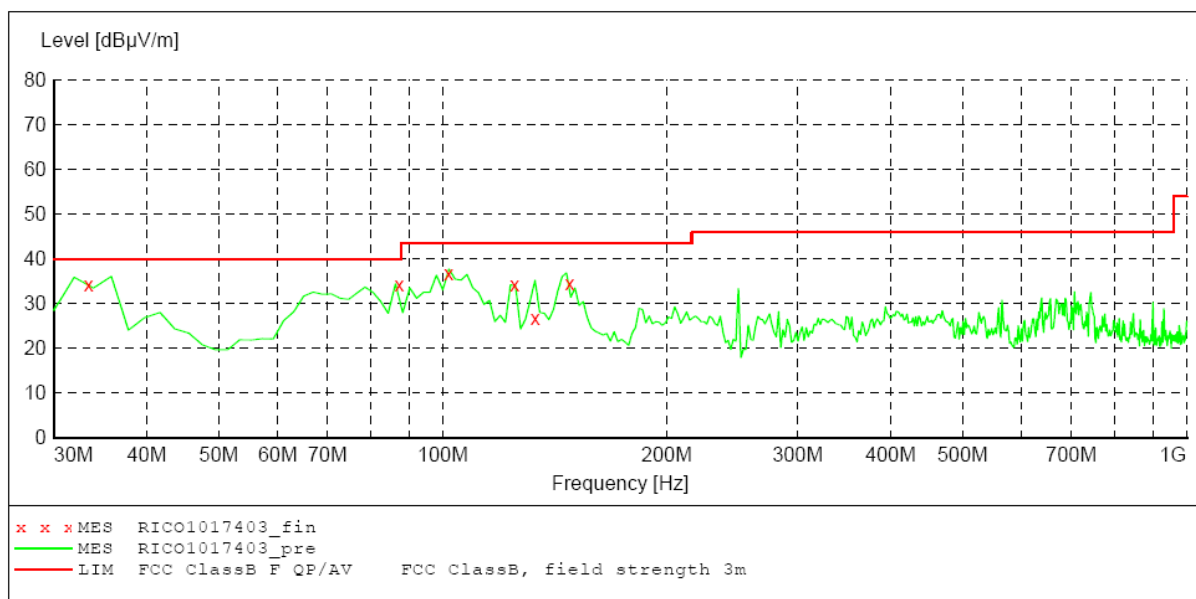
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1063.000000	23.40	-9.2	54.0	30.6	AV	100.0	244.00	HORIZONTAL
1200.000000	33.10	-8.1	54.0	20.9	AV	100.0	213.00	HORIZONTAL
1327.000000	22.80	-7.1	54.0	31.2	AV	100.0	276.00	HORIZONTAL
1595.500000	24.70	-5.0	54.0	29.3	AV	100.0	259.00	HORIZONTAL
1706.500000	25.30	-3.9	54.0	28.7	AV	100.0	275.00	HORIZONTAL
1938.000000	27.30	-2.0	54.0	26.7	AV	100.0	0.00	HORIZONTAL

mode 6: NIC SCAN (30MHz-1000MHz)**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD****RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: NIC SCAN
Test Site: 3M CHAMBER
Operator: MINGHUA.FAN
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/17/2011 / 4:01:02PM

SCAN TABLE: "test Field(30M-1G)OP"

Short Description:	Field Strength(30M-1G)
Start Stop Step	Detector Meas. IF Transducer
Frequency Frequency Width	Time Bandw.
30.0 MHz 1.0 GHz 60.0 kHz	QuasiPeak 1.0 s 120 kHz HL562 201106

**MEASUREMENT RESULT: "RICO1017403_fin"**

10/17/2011 4:08PM

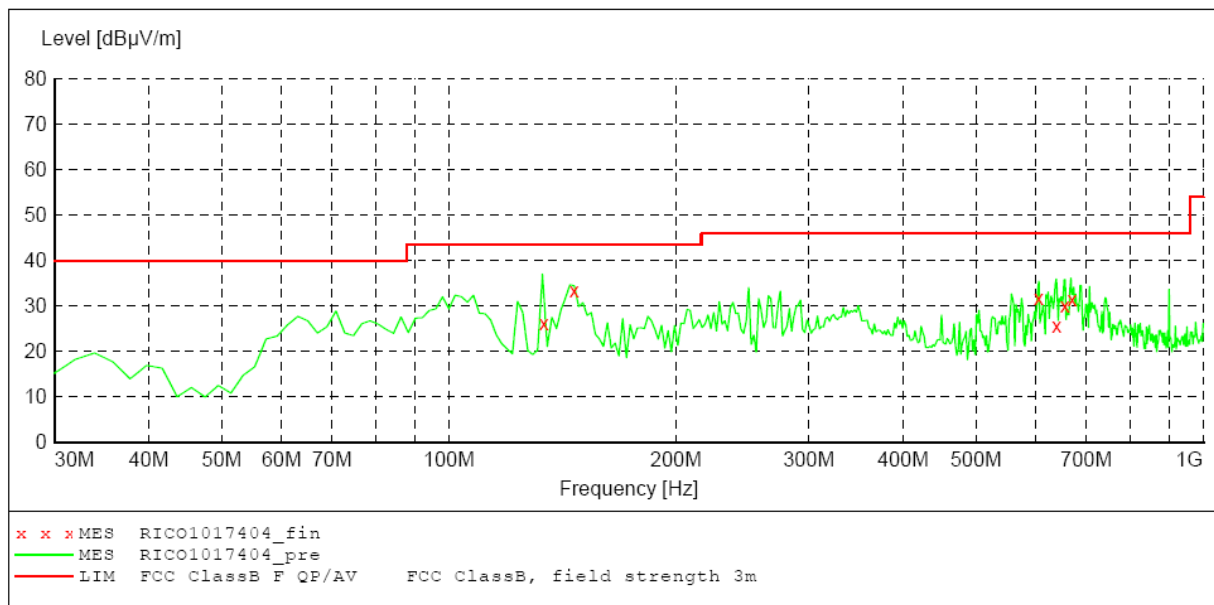
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
33.420000	34.30	-23.9	40.0	5.7	QP	100.0	108.00	VERTICAL
87.420000	34.30	-31.6	40.0	5.7	QP	98.0	202.00	VERTICAL
101.880000	36.60	-30.8	43.5	6.9	QP	101.0	238.00	VERTICAL
124.980000	34.30	-30.7	43.5	9.2	QP	100.0	186.00	VERTICAL
133.200000	26.70	-31.8	43.5	16.8	QP	101.0	110.00	VERTICAL
148.140000	34.50	-33.6	43.5	9.0	QP	99.0	289.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: NIC SCAN
Test Site: 3M CHAMBER
Operator: MINGHUA.FAN
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/17/2011 / 4:08:35PM

SCAN TABLE: "test Field(30M-1G)OP"

Short Description:		Field Strength(30M-1G)				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562 201106

**MEASUREMENT RESULT: "RICO1017404_fin"**

10/17/2011 4:18PM

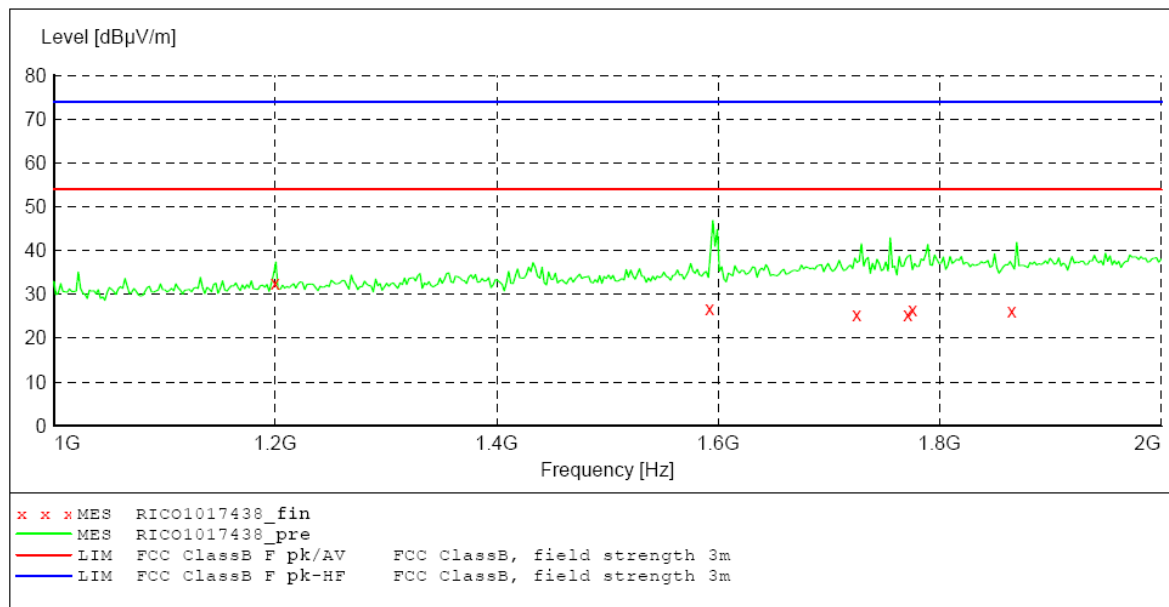
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
133.680000	26.10	-31.9	43.5	17.4	QP	150.0	205.00	HORIZONTAL
146.640000	33.30	-33.5	43.5	10.2	QP	250.0	310.00	HORIZONTAL
605.400000	31.60	-23.2	46.0	14.4	QP	100.0	168.00	HORIZONTAL
639.420000	25.70	-21.7	46.0	20.3	QP	99.0	163.00	HORIZONTAL
655.980000	30.00	-21.2	46.0	16.0	QP	100.0	163.00	HORIZONTAL
670.560000	31.40	-20.7	46.0	14.6	QP	100.0	149.00	HORIZONTAL

mode 6: NIC SCAN (1000MHz-2000MHz)**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD****RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: NIC SCAN
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 8:59:14PM

SCAN TABLE: "test Field(1G-18G)AV"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 1.0 GHz 18.0 GHz 500.0 kHz Average 1.0 s 1 MHz HF906 2011

**MEASUREMENT RESULT: "RICO1017438_fin"**

10/17/2011 9:05PM

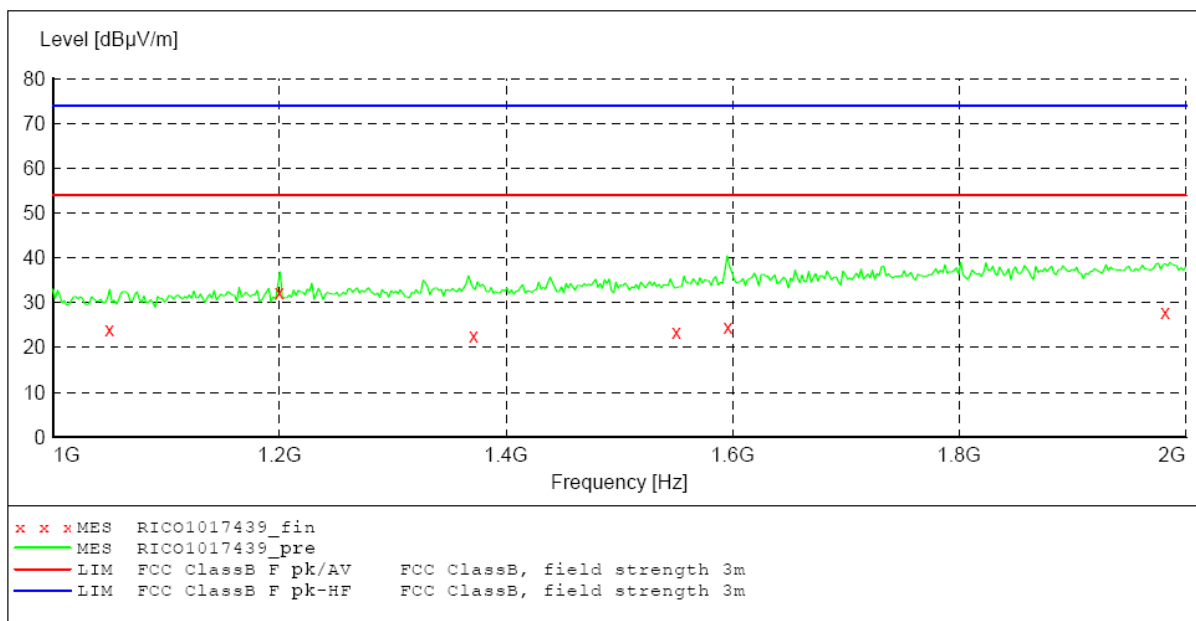
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1200.000000	32.60	-8.1	54.0	21.4	AV	100.0	224.00	VERTICAL
1592.500000	26.90	-5.1	54.0	27.1	AV	100.0	250.00	VERTICAL
1725.500000	25.50	-3.7	54.0	28.5	AV	100.0	176.00	VERTICAL
1771.500000	25.40	-3.3	54.0	28.6	AV	100.0	0.00	VERTICAL
1776.000000	26.40	-3.3	54.0	27.6	AV	100.0	2.00	VERTICAL
1865.500000	26.20	-2.6	54.0	27.8	AV	100.0	220.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: NIC SCAN
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 9:07:57PM

SCAN TABLE: "test Field(1G-18G)AV"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 1.0 GHz 18.0 GHz 500.0 kHz Average 1.0 s 1 MHz HF906 2011

**MEASUREMENT RESULT: "RICO1017439_fin"**

10/17/2011 9:12PM

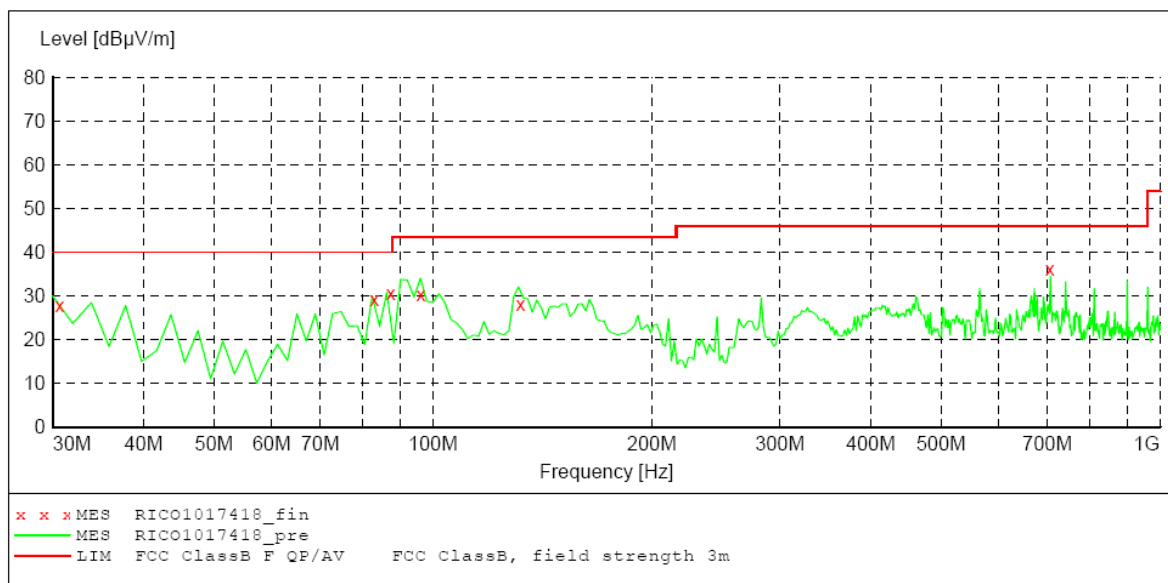
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1050.000000	24.00	-9.3	54.0	30.0	AV	100.0	218.00	HORIZONTAL
1200.000000	32.30	-8.1	54.0	21.7	AV	100.0	190.00	HORIZONTAL
1371.500000	22.60	-6.8	54.0	31.4	AV	100.0	159.00	HORIZONTAL
1550.500000	23.60	-5.5	54.0	30.4	AV	100.0	232.00	HORIZONTAL
1596.000000	24.50	-5.0	54.0	29.5	AV	100.0	232.00	HORIZONTAL
1982.000000	27.80	-1.6	54.0	26.2	AV	100.0	267.00	HORIZONTAL

mode 7: SCAN TO USB MEMORY (30MHz-1000MHz)**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD****RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: SCAN TO USB MEMORY
Test Site: 3M CHAMBER
Operator: FIYO
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/17/2011 / 5:56:53PM

SCAN TABLE: "test Field(30M-1G)QP"

Short Description:		Field Strength(30M-1G)				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562 201106

**MEASUREMENT RESULT: "RICO1017418_fin"**

10/17/2011 6:03PM

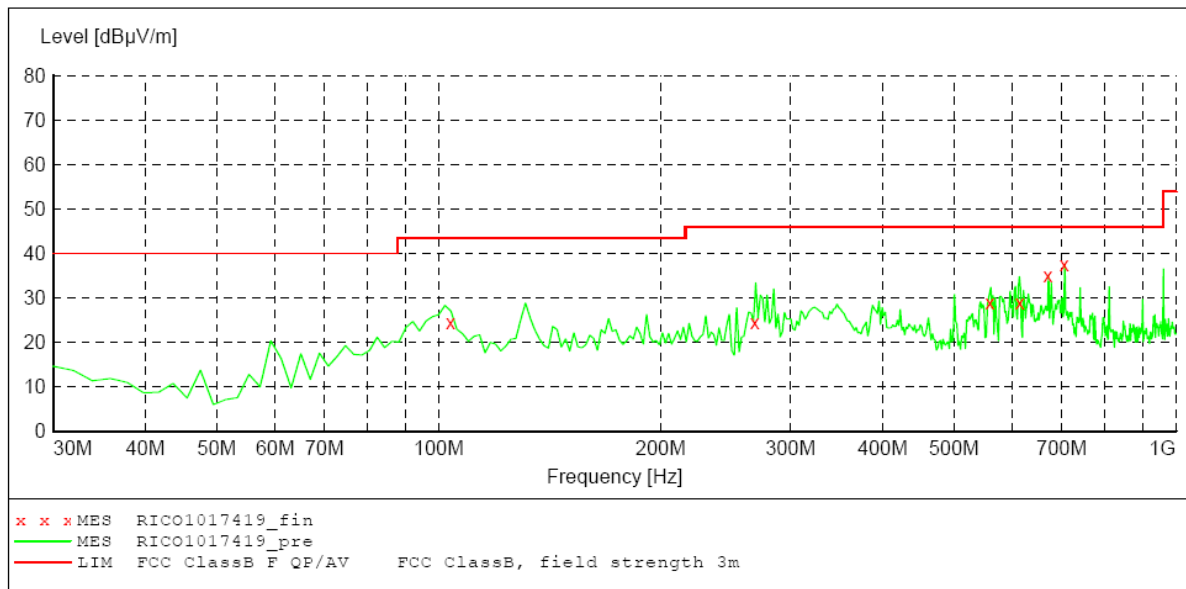
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.660000	27.80	-22.5	40.0	12.2	QP	100.0	150.00	VERTICAL
83.100000	29.10	-32.4	40.0	10.9	QP	99.0	314.00	VERTICAL
87.480000	30.60	-31.6	40.0	9.4	QP	100.0	149.00	VERTICAL
96.240000	30.40	-30.9	43.5	13.1	QP	126.0	152.00	VERTICAL
132.000000	28.10	-31.7	43.5	15.4	QP	100.0	117.00	VERTICAL
705.600000	36.20	-20.9	46.0	9.8	QP	114.0	217.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: SCAN TO USB MEMORY
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 6:04:19PM

SCAN TABLE: "test Field(30M-1G)OP"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 201106

**MEASUREMENT RESULT: "RICO1017419_fin"**

10/17/2011 6:13PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
103.740000	24.40	-30.7	43.5	19.1	QP	250.0	78.00	HORIZONTAL
268.320000	24.40	-29.1	46.0	21.6	QP	99.0	109.00	HORIZONTAL
559.500000	28.90	-24.4	46.0	17.1	QP	100.0	244.00	HORIZONTAL
614.580000	29.00	-22.7	46.0	17.0	QP	150.0	234.00	HORIZONTAL
670.320000	35.00	-20.7	46.0	11.0	QP	100.0	143.00	HORIZONTAL
705.600000	37.50	-20.9	46.0	8.5	QP	100.0	194.00	HORIZONTAL

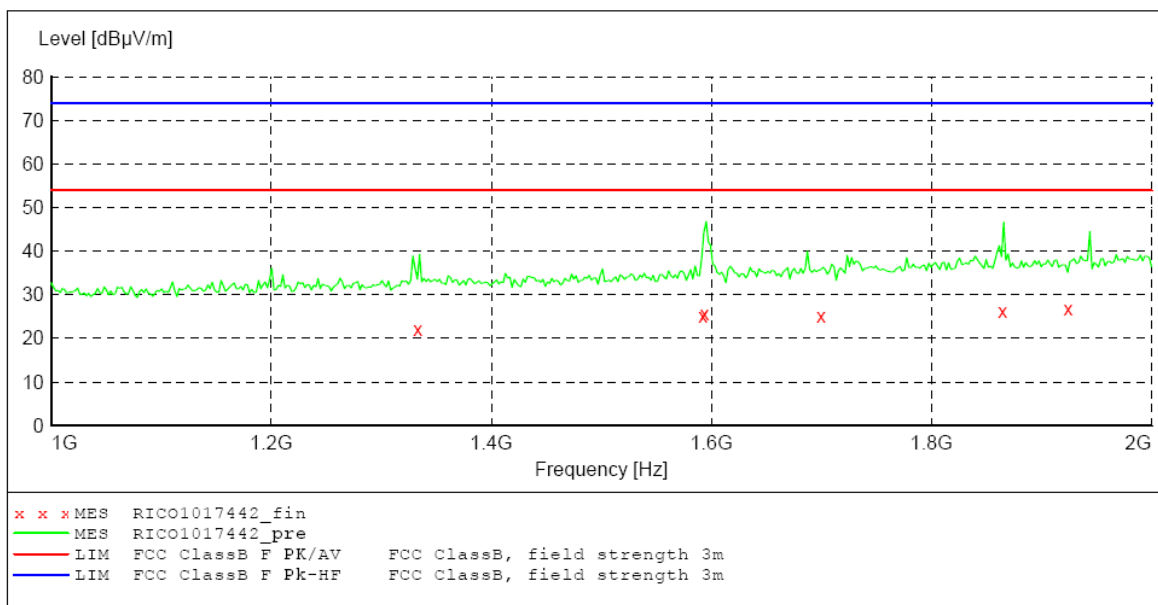
mode 7: SCAN TO USB MEMORY (1000MHz-2000MHz)**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD****RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: SCAN TO USB MEMORY
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 9:36:40PM

SCAN TABLE: "test Field(1G-18G)AV"

Short Description: Field Strength(30M-1G)

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width	Average	1.0 s	1 MHz	HF906 2011
1.0 GHz	18.0 GHz	500.0 kHz				

**MEASUREMENT RESULT: "RICO1017442_fin"**

10/17/2011 9:45PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1333.500000	22.20	-7.1	54.0	31.8	AV	100.0	233.00	VERTICAL
1592.500000	25.20	-5.1	54.0	28.8	AV	100.0	240.00	VERTICAL
1594.000000	25.60	-5.0	54.0	28.4	AV	100.0	247.00	VERTICAL
1700.000000	25.20	-3.9	54.0	28.8	AV	100.0	4.00	VERTICAL
1865.000000	26.20	-2.6	54.0	27.8	AV	100.0	3.00	VERTICAL
1924.500000	26.70	-2.1	54.0	27.3	AV	100.0	357.00	VERTICAL

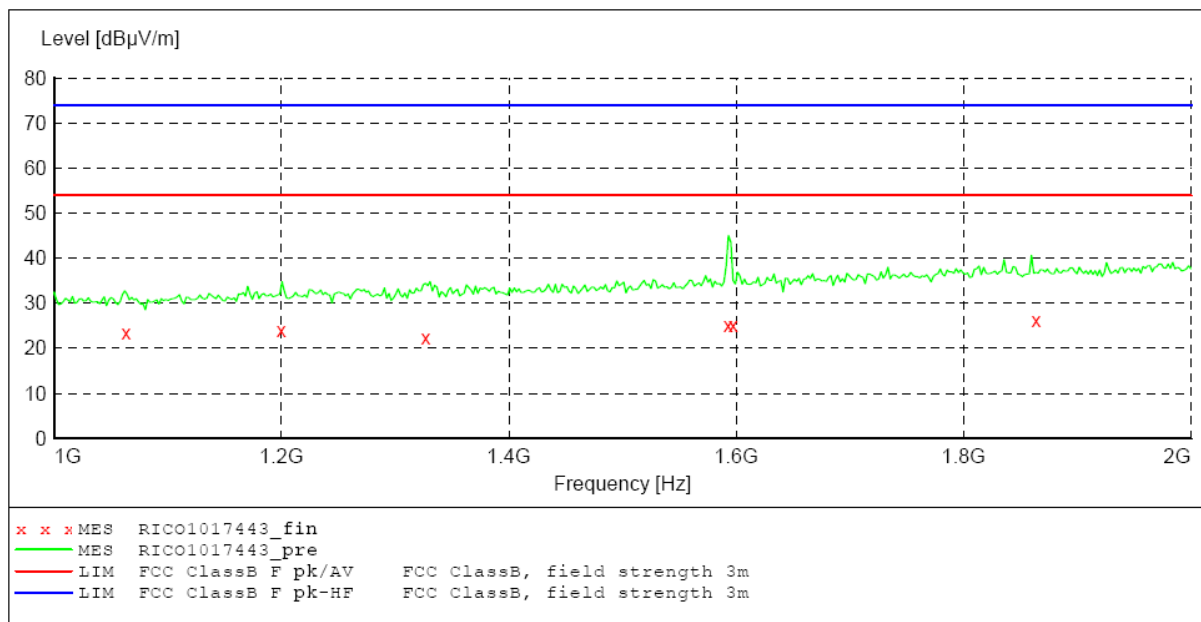
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO., LTD

RADIATED EMISSION FCC PART 15 B

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: SCAN TO USB MEMORY
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 9:48:25PM

SCAN TABLE: "test Field(1G-18G)AV"

Short Description:			Field Strength(30M-1G)				Transducer
Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.		
1.0 GHz	18.0 GHz	500.0 kHz	Average	1.0 s	1 MHz	HF906 2011	



MEASUREMENT RESULT: "RICO1017443_fin"

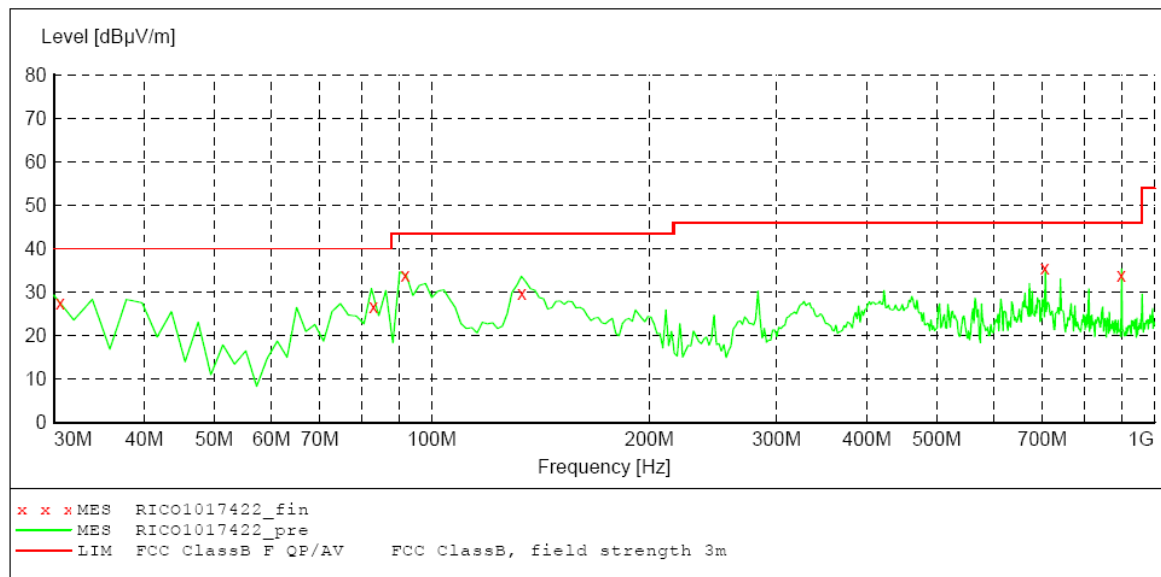
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1063.500000	23.50	-9.2	54.0	30.5	AV	100.0	216.00	HORIZONTAL
1200.000000	24.00	-8.1	54.0	30.0	AV	100.0	277.00	HORIZONTAL
1327.000000	22.50	-7.1	54.0	31.5	AV	100.0	219.00	HORIZONTAL
1593.000000	25.00	-5.0	54.0	29.0	AV	100.0	198.00	HORIZONTAL
1597.500000	25.00	-5.0	54.0	29.0	AV	100.0	200.00	HORIZONTAL
1864.000000	26.30	-2.6	54.0	27.7	AV	100.0	273.00	HORIZONTAL

mode 8:FAX TX (30MHz-1000MHz)**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD****RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: FAX TX
Test Site: 3M CHAMBER
Operator: FIYO
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/17/2011 / 6:33:11PM

SCAN TABLE: "test Field(30M-1G)QP"

Short Description:		Field Strength(30M-1G)				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562 201106

**MEASUREMENT RESULT: "RICO1017422_fin"**

10/17/2011 6:41PM

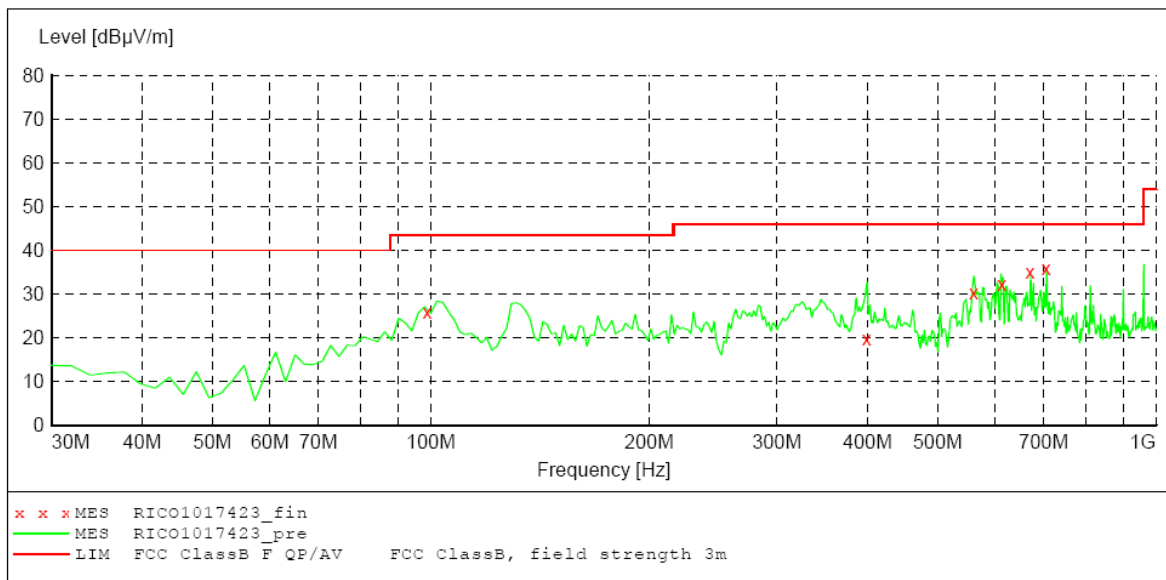
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.600000	27.40	-22.5	40.0	12.6	QP	100.0	60.00	VERTICAL
83.040000	26.60	-32.5	40.0	13.4	QP	126.0	264.00	VERTICAL
91.860000	34.00	-31.1	43.5	9.5	QP	100.0	149.00	VERTICAL
133.320000	29.80	-31.9	43.5	13.7	QP	139.0	116.00	VERTICAL
705.600000	35.50	-20.9	46.0	10.5	QP	114.0	245.00	VERTICAL
900.000000	34.00	-18.8	46.0	12.0	QP	119.0	254.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: FAX TX
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 6:41:32PM

SCAN TABLE: "test Field(30M-1G)QP"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 201106

**MEASUREMENT RESULT: "RICO1017423_fin"**

10/17/2011 6:51PM

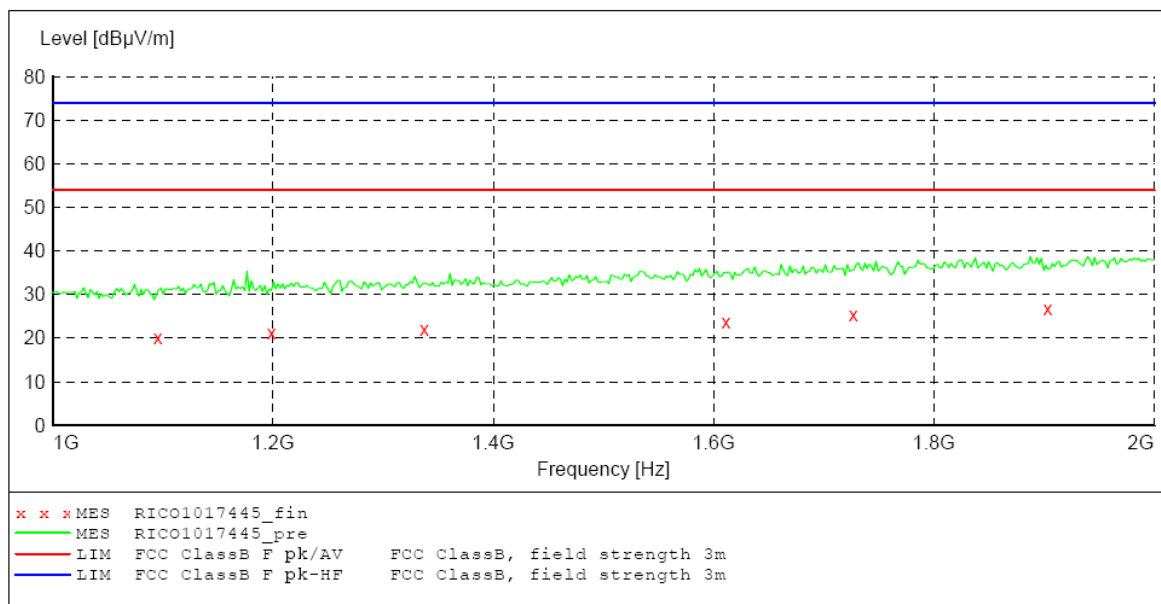
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
98.940000	25.80	-30.9	43.5	17.7	QP	250.0	104.00	HORIZONTAL
398.940000	19.80	-26.1	46.0	26.2	QP	100.0	164.00	HORIZONTAL
560.400000	30.40	-24.4	46.0	15.6	QP	100.0	228.00	HORIZONTAL
613.260000	32.10	-22.7	46.0	13.9	QP	99.0	197.00	HORIZONTAL
670.320000	35.10	-20.7	46.0	10.9	QP	100.0	247.00	HORIZONTAL
705.600000	35.80	-20.9	46.0	10.2	QP	100.0	187.00	HORIZONTAL

mode 8:FAX TX (1000MHz-2000MHz)**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD****RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: FAX TX
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 11:43:20PM

SCAN TABLE: "test Field(1G-18G)AV"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 1.0 GHz 18.0 GHz 500.0 kHz Average 1.0 s 1 MHz HF906 2011

**MEASUREMENT RESULT: "RICO1017445_fin"**

10/17/2011 11:53PM

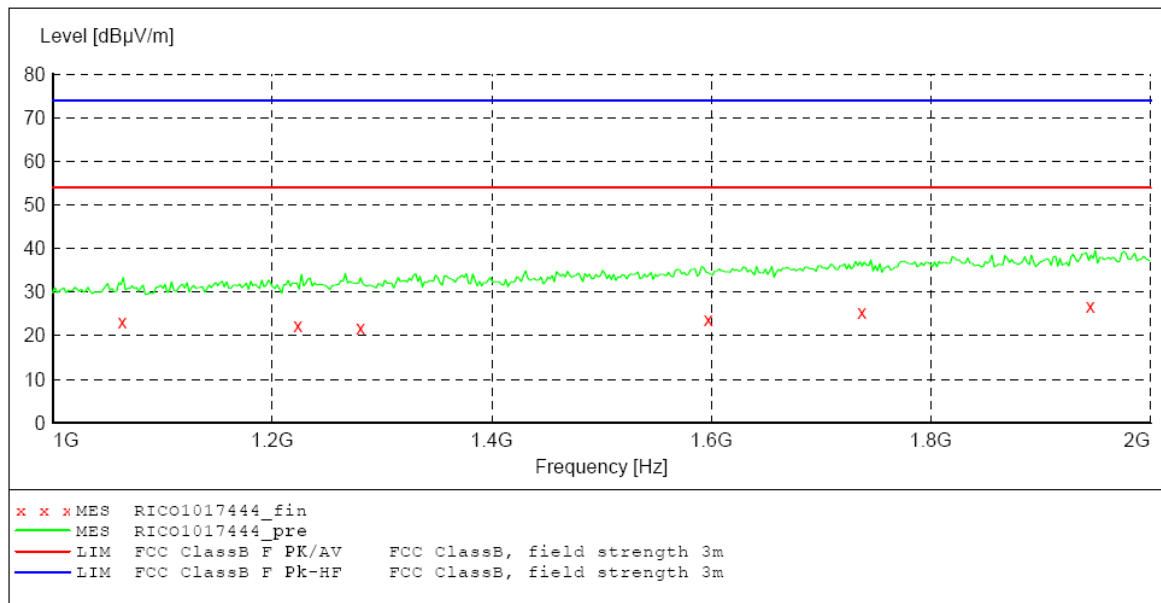
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1095.500000	20.20	-9.0	54.0	33.8	AV	100.0	86.00	VERTICAL
1199.000000	21.20	-8.1	54.0	32.8	AV	100.0	249.00	VERTICAL
1337.500000	22.10	-7.0	54.0	31.9	AV	100.0	360.00	VERTICAL
1611.500000	23.80	-4.9	54.0	30.2	AV	100.0	224.00	VERTICAL
1727.000000	25.30	-3.7	54.0	28.7	AV	100.0	110.00	VERTICAL
1903.500000	26.70	-2.3	54.0	27.3	AV	100.0	281.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: FAX TX
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/17/2011 / 11:27:44PM

SCAN TABLE: "test Field(1G-18G)AV"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Average Time Bandw.
 1.0 GHz 18.0 GHz 500.0 kHz Average 1.0 s 1 MHz HF906 2011

**MEASUREMENT RESULT: "RICO1017444_fin"**

10/17/2011 11:40PM

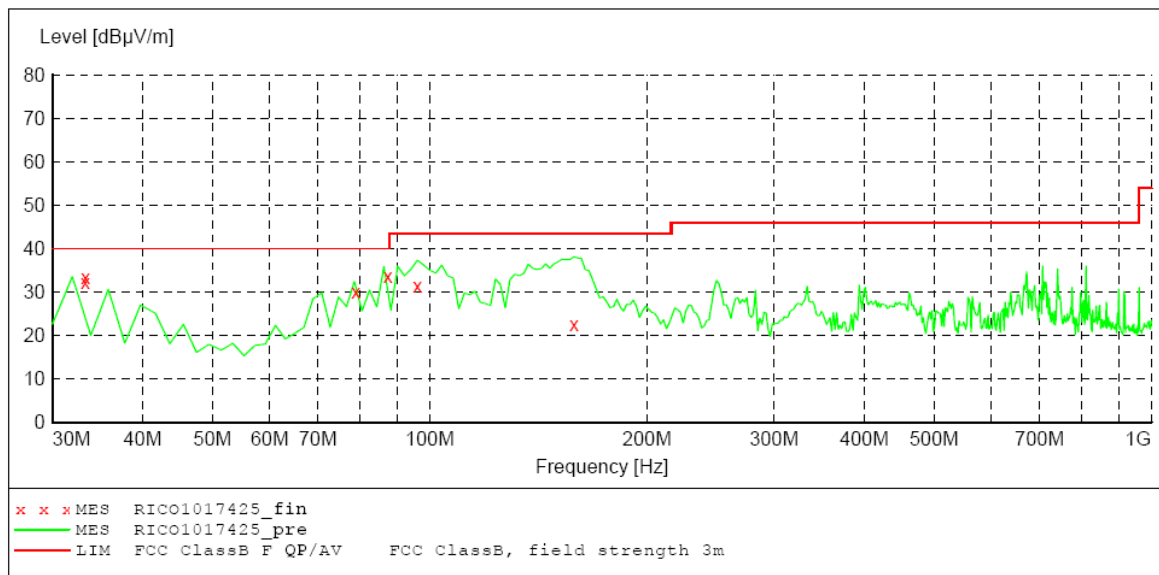
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1063.500000	23.20	-9.2	54.0	30.8	AV	100.0	232.00	HORIZONTAL
1223.500000	22.40	-7.9	54.0	31.6	AV	100.0	261.00	HORIZONTAL
1280.500000	21.80	-7.5	54.0	32.2	AV	100.0	237.00	HORIZONTAL
1597.500000	23.90	-5.0	54.0	30.1	AV	100.0	80.00	HORIZONTAL
1737.500000	25.40	-3.6	54.0	28.6	AV	100.0	291.00	HORIZONTAL
1945.500000	26.90	-1.9	54.0	27.1	AV	100.0	39.00	HORIZONTAL

mode 9:FAX RX (30MHz-1000MHz)**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD****RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: FAX RX
Test Site: 3M CHAMBER
Operator: FIYO
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/17/2011 / 7:10:35PM

SCAN TABLE: "test Field(30M-1G)QP"

Short Description:	Field Strength(30M-1G)
Start Stop Step	Detector Meas. IF Transducer
Frequency Frequency Width	Time Bandw.
30.0 MHz 1.0 GHz 60.0 kHz	QuasiPeak 1.0 s 120 kHz HL562 201106

**MEASUREMENT RESULT: "RICO1017425_fin"**

10/17/2011 7:20PM

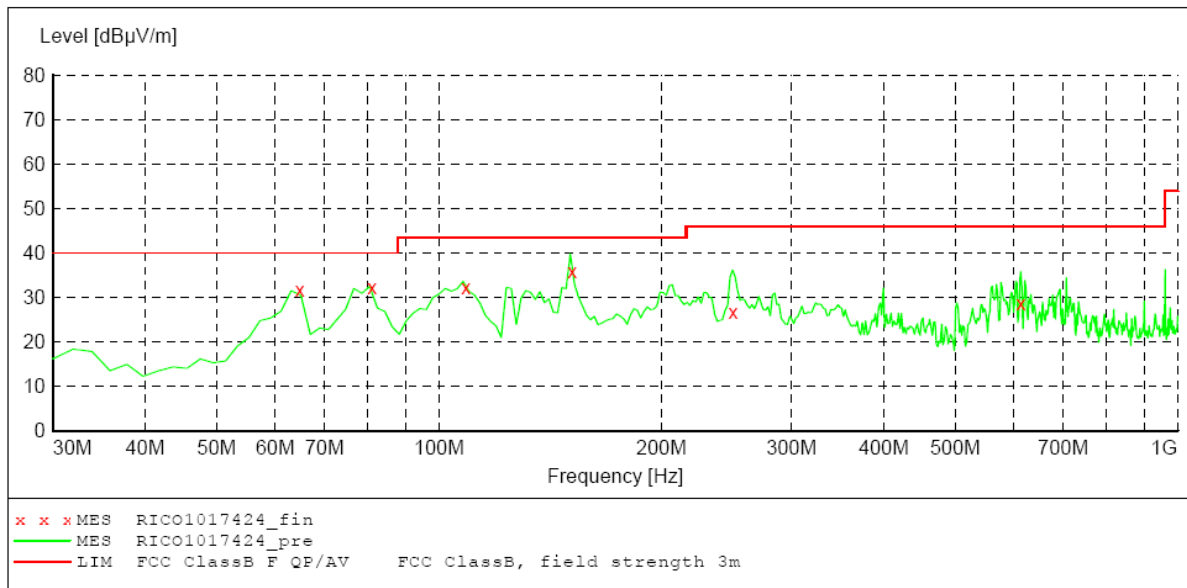
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
33.300000	32.30	-23.9	40.0	7.7	QP	100.0	141.00	VERTICAL
33.360000	33.30	-23.9	40.0	6.7	QP	100.0	191.00	VERTICAL
79.020000	29.90	-33.2	40.0	10.1	QP	100.0	287.00	VERTICAL
87.480000	33.70	-31.6	40.0	6.3	QP	100.0	141.00	VERTICAL
96.120000	31.50	-30.9	43.5	12.0	QP	100.0	163.00	VERTICAL
155.580000	22.60	-33.9	43.5	20.9	QP	100.0	225.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: FAX RX
Test Site: 3M CHAMBER
Operator: FIYO
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/17/2011 / 6:53:34PM

SCAN TABLE: "test Field(30M-1G)QP"

Short Description:		Field Strength(30M-1G)				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562 201106

**MEASUREMENT RESULT: "RICO1017424_fin"**

10/17/2011 7:08PM

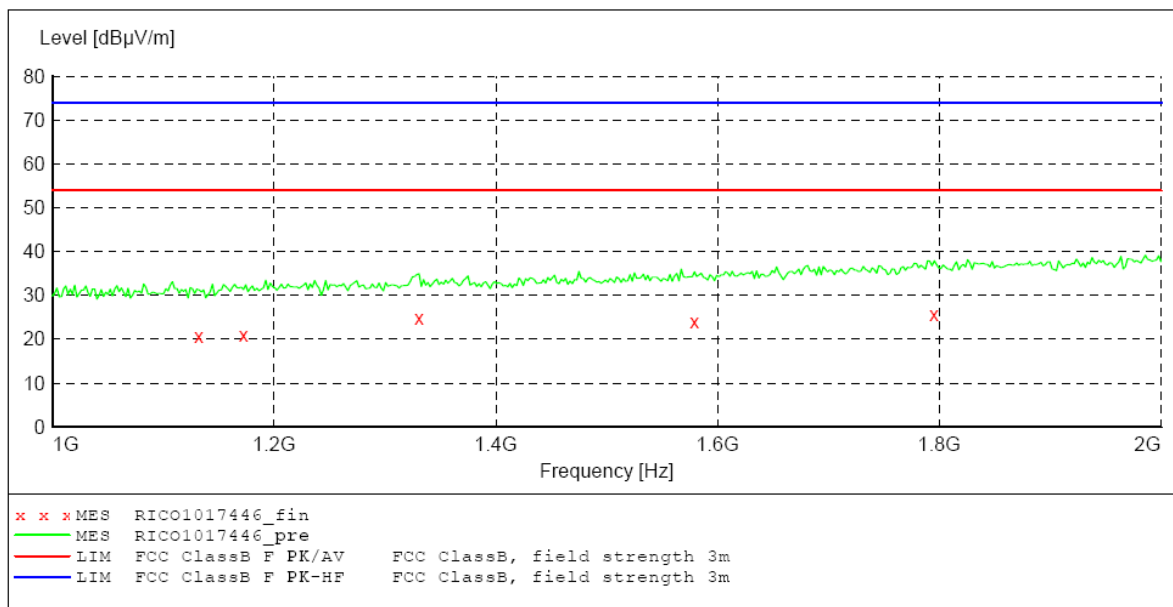
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
64.800000	31.70	-34.8	40.0	8.3	QP	249.0	174.00	HORIZONTAL
81.180000	32.30	-32.9	40.0	7.7	QP	350.0	195.00	HORIZONTAL
108.840000	32.30	-30.6	43.5	11.2	QP	288.0	319.00	HORIZONTAL
151.500000	35.90	-33.7	43.5	7.6	QP	250.0	0.00	HORIZONTAL
250.020000	26.60	-29.6	46.0	19.4	QP	100.0	255.00	HORIZONTAL
613.260000	28.70	-22.7	46.0	17.3	QP	100.0	196.00	HORIZONTAL

mode 9:FAX RX (1000MHz-2000MHz)**SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD****RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: FAX RX
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/18/2011 / 11:56:04PM

SCAN TABLE: "test Field(1G-18G)AV"

Short Description: Field Strength(30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 1.0 GHz 18.0 GHz 500.0 kHz Average 1.0 s 1 MHz HF906 2011

**MEASUREMENT RESULT: "RICO1017446_fin"**

10/18/2011 12:04AM

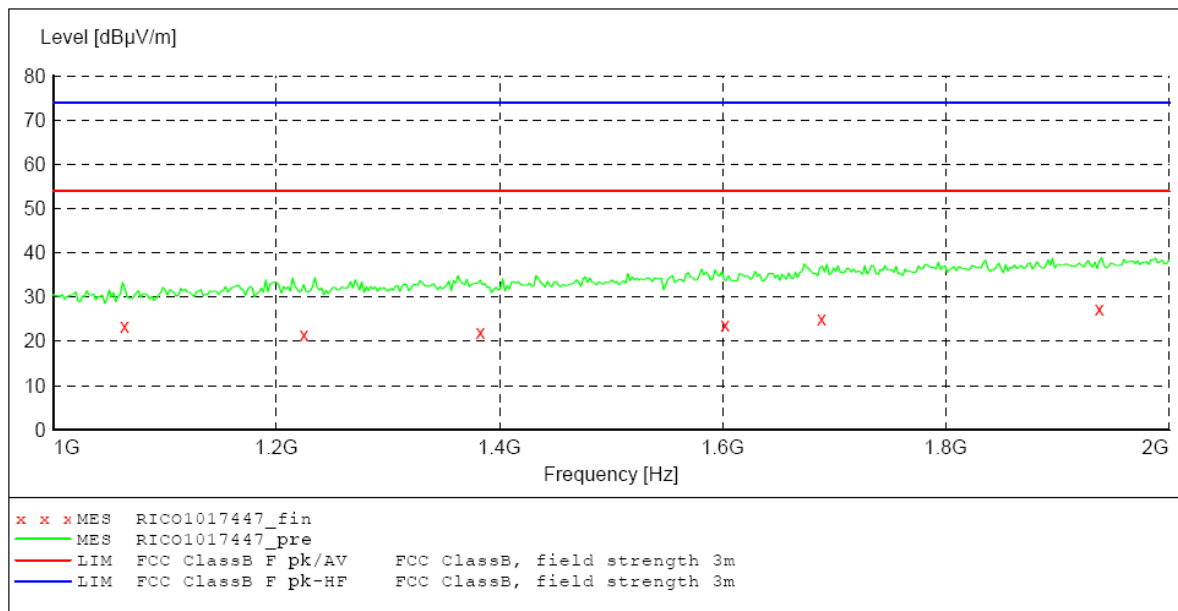
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1132.000000	20.70	-8.6	54.0	33.3	AV	100.0	334.00	VERTICAL
1172.500000	20.90	-8.3	54.0	33.1	AV	100.0	360.00	VERTICAL
1331.000000	24.80	-7.1	54.0	29.2	AV	100.0	254.00	VERTICAL
1579.500000	24.00	-5.2	54.0	30.0	AV	100.0	160.00	VERTICAL
1795.500000	25.80	-3.1	54.0	28.2	AV	100.0	251.00	VERTICAL
2009.500000	27.50	-1.4	54.0	26.5	AV	100.0	42.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: FAX RX
 Test Site: 3M CHAMBER
 Operator: FIYO
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/18/2011 / 12:07:28AM

SCAN TABLE: "test Field(1G-18G)AV"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
1.0 GHz	18.0 GHz	500.0 kHz	Average	1.0 s	1 MHz	HF906 2011

**MEASUREMENT RESULT: "RICO1017447_fin"**

10/18/2011 12:15AM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1064.000000	23.60	-9.2	54.0	30.4	AV	100.0	225.00	HORIZONTAL
1225.000000	21.50	-7.9	54.0	32.5	AV	100.0	248.00	HORIZONTAL
1383.000000	22.20	-6.7	54.0	31.8	AV	100.0	29.00	HORIZONTAL
1602.500000	23.90	-5.0	54.0	30.1	AV	100.0	165.00	HORIZONTAL
1689.000000	25.20	-4.1	54.0	28.8	AV	100.0	136.00	HORIZONTAL
1938.000000	27.30	-2.0	54.0	26.7	AV	100.0	349.00	HORIZONTAL

4.2. Conducted Disturbance

For test instruments and accessories used see section 3.6.

4.2.1. Description of the test location

Test location: Shielded room No. 2

4.2.2. Limits of disturbance

Limit of Conducted Disturbance at Mains Ports (Class B)

Frequency Range (MHz)	Limits (dBuV)	
	Quasi-Peak	Average
0.150~0.500	66~56	56~46
0.500~5.000	56	46
5.000~30.000	60	50

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

4.2.3. Description of the test set-up

4.2.3.1. Operating Condition

The EUT is set to work that shall be carried out respectively standby, USB print and NIC print modes during the test and the maximum emanating results are recorded.

4.2.3.2. Test Procedure

EUT is placed on a nonmetal table 0.8 meter above the grounded reference plane. The power line of the EUT is connected to the LISN which is connected to receiver by coaxial line, and then disturbance signals of the neutral line and live line can be detected by the receiver.

4.2.3.3. Photos of the test set-up



4.2.4. Test result

The requirements are **Fulfilled**

Band Width: 9 KHz

Frequency Range: 150 KHz to 30MHz

Remarks: The limits are kept. For detailed results, please see the following page(s).

Margin=limit-level

Level=read value+transducer

Transducer=insertion loss of LISN+cable loss+insertion loss of pulse limiter

mode 1: STANDBY

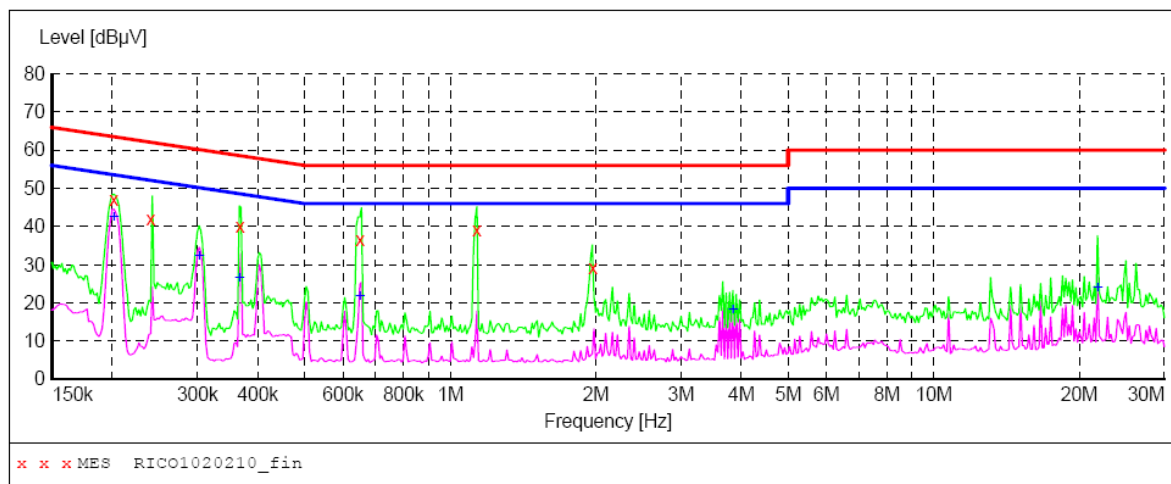
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC Part 15 B

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: STANDBY
Test Site: 2# SHIELDED ROOM
Operator: TIM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/20/2011 / 4:55:09PM

SCAN TABLE: "Voltage(150K-30M)FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO1020210_fin"

11/7/2011 2:42PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	47.10	10.2	64	16.5	QP	L1	GND
0.240020	42.10	10.2	62	20.0	QP	L1	GND
0.367150	40.10	10.2	59	18.5	QP	L1	GND
0.650310	36.40	10.2	56	19.6	QP	L1	GND
1.135179	39.20	10.2	56	16.8	QP	L1	GND
1.972910	29.20	10.2	56	26.8	QP	L1	GND

MEASUREMENT RESULT: "RICO1020210_fin2"

11/7/2011 2:44PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	42.50	10.2	54	11.1	AV	L1	GND
0.302420	32.50	10.2	50	17.7	AV	L1	GND
0.366150	26.50	10.2	49	22.1	AV	L1	GND
0.650310	22.00	10.2	46	24.0	AV	L1	GND
3.841730	18.20	10.3	46	27.8	AV	L1	GND
21.823462	24.20	10.6	50	25.8	AV	L1	GND

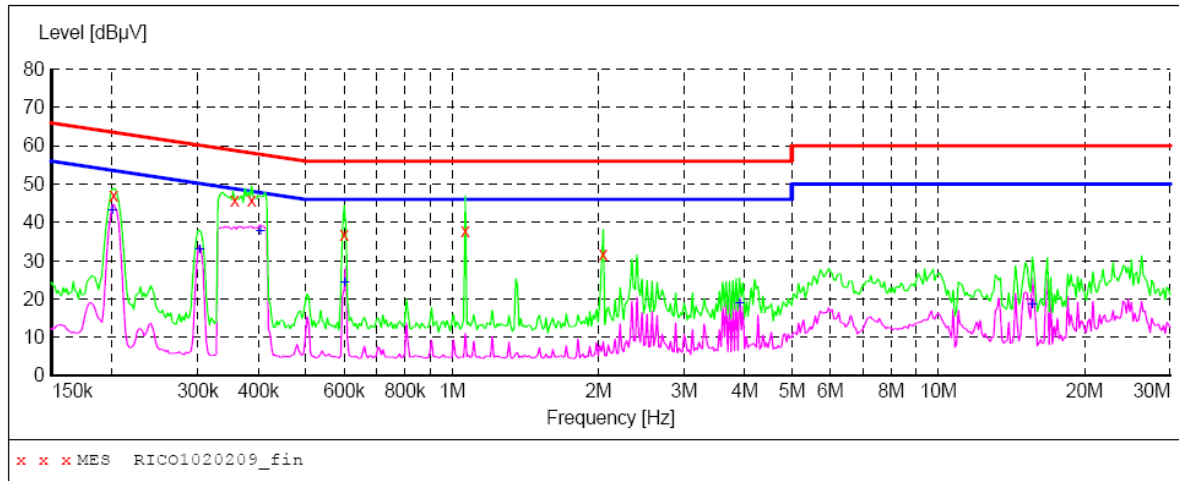
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC Part 15 B

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: STANDBY
Test Site: 2# SHIELDED ROOM
Operator: TIM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/20/2011 / 4:45:43PM

SCAN TABLE: "Voltage(150K-30M)FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO1020209_fin"

11/7/2011 2:34PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	47.00	10.2	64	16.6	QP	N	GND
0.357502	45.70	10.2	59	13.1	QP	N	GND
0.387163	45.80	10.2	58	12.3	QP	N	GND
0.600100	36.90	10.2	56	19.1	QP	N	GND
1.063594	37.70	10.2	56	18.3	QP	N	GND
2.047127	31.90	10.2	56	24.1	QP	N	GND

MEASUREMENT RESULT: "RICO1020209_fin2"

11/7/2011 2:35PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.199830	43.40	10.2	54	10.2	AV	N	GND
0.302420	32.90	10.2	50	17.3	AV	N	GND
0.402898	37.80	10.2	48	10.0	AV	N	GND
0.600901	24.40	10.2	46	21.6	AV	N	GND
3.903450	18.90	10.3	46	27.1	AV	N	GND
15.616420	18.60	10.5	50	31.4	AV	N	GND

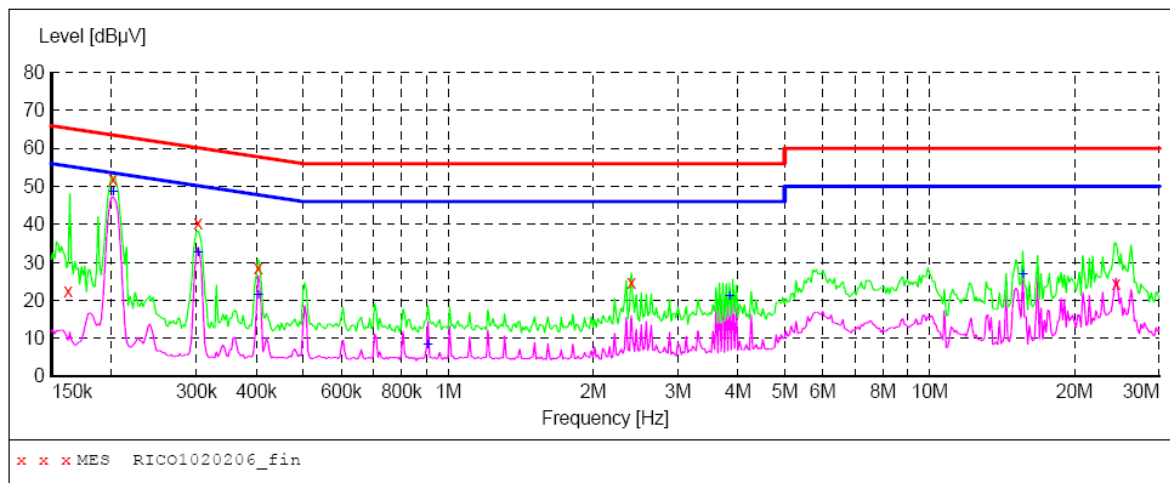
mode 2: Copy

*Shenzhen Huatongwei International Inspection CO.,Ltd***Voltage Mains Test FCC Part 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: COPY
Test Site: 2# SHIELDED ROOM
Operator: TIM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/20/2011 / 4:21:35PM

SCAN TABLE: "Voltage(150K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RICO1020206_fin"**

10/20/2011 4:27PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.162440	22.60	10.1	65	42.7	QP	L1	GND
0.201429	51.90	10.2	64	11.7	QP	L1	GND
0.302420	40.40	10.2	60	19.8	QP	L1	GND
0.402898	28.60	10.2	58	29.2	QP	L1	GND
2.400794	24.80	10.3	56	31.2	QP	L1	GND
24.398948	24.40	10.8	60	35.6	QP	L1	GND

MEASUREMENT RESULT: "RICO1020206_fin2"

10/20/2011 4:27PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	48.60	10.2	54	5.0	AV	L1	GND
0.302420	32.90	10.2	50	17.3	AV	L1	GND
0.402898	21.50	10.2	48	26.3	AV	L1	GND
0.908178	8.60	10.2	46	37.4	AV	L1	GND
3.841730	21.10	10.3	46	24.9	AV	L1	GND
15.616420	26.90	10.5	50	23.1	AV	L1	GND

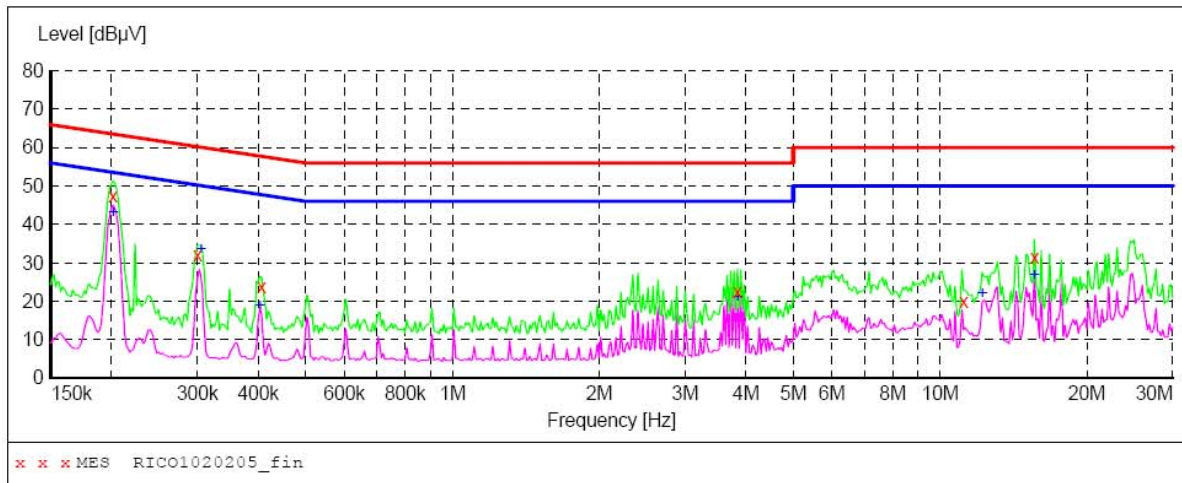
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC Part 15 B

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: COPY
Test Site: 2# SHIELDED ROOM
Operator: TIM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/20/2011 / 4:15:00PM

SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO1020205_fin"

10/20/2011 4:21PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	47.40	10.2	64	16.2	QP	N	GND
0.300020	32.10	10.2	60	28.1	QP	N	GND
0.406120	23.90	10.2	58	33.8	QP	N	GND
3.841730	22.50	10.3	56	33.5	QP	N	GND
11.174780	19.90	10.6	60	40.1	QP	N	GND
15.616420	31.60	10.5	60	28.4	QP	N	GND

MEASUREMENT RESULT: "RICO1020205_fin2"

10/20/2011 4:21PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	43.40	10.2	54	10.2	AV	N	GND
0.304840	33.60	10.2	50	16.5	AV	N	GND
0.402898	19.00	10.2	48	28.8	AV	N	GND
3.841730	21.10	10.3	46	24.9	AV	N	GND
12.198450	22.20	10.6	50	27.8	AV	N	GND
15.616420	26.90	10.5	50	23.1	AV	N	GND

mode 3: USB print

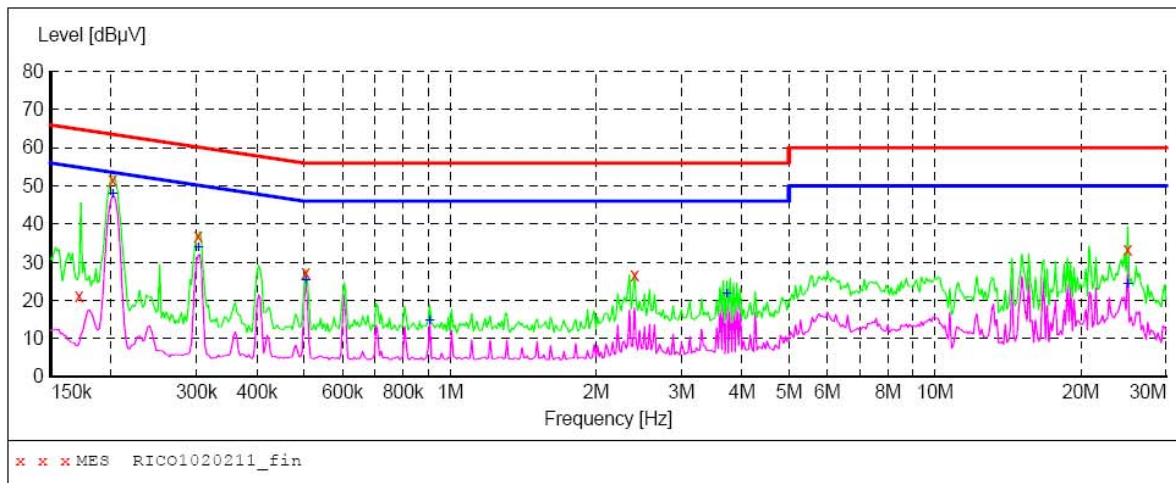
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC Part 15 B

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: USB PRINT
Test Site: 2# SHIELDED ROOM
Operator: TIM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/20/2011 / 5:12:22PM

SCAN TABLE: "Voltage(150K-30M)FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO1020211_fin"

10/20/2011 5:18PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.171750	21.10	10.1	65	43.8	QP	L1	GND
0.201429	51.70	10.2	64	11.9	QP	L1	GND
0.302420	36.90	10.2	60	23.3	QP	L1	GND
0.503607	27.20	10.2	56	28.8	QP	L1	GND
2.400794	26.80	10.3	56	29.2	QP	L1	GND
24.989227	33.50	10.8	60	26.5	QP	L1	GND

MEASUREMENT RESULT: "RICO1020211_fin2"

10/20/2011 5:18PM

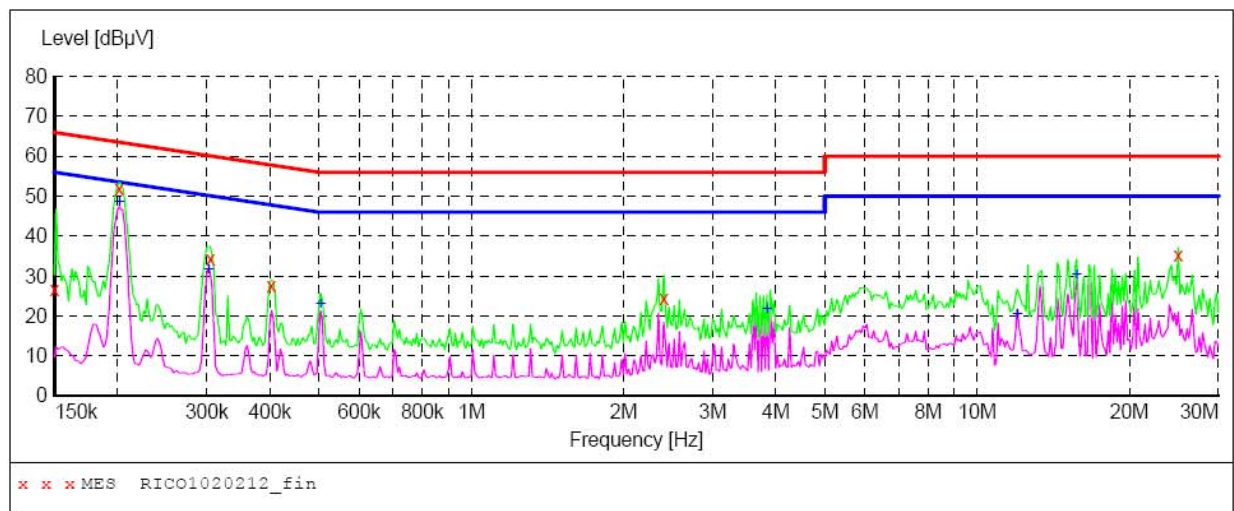
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	48.20	10.2	54	5.4	AV	L1	GND
0.302420	34.00	10.2	50	16.2	AV	L1	GND
0.503607	25.40	10.2	46	20.6	AV	L1	GND
0.908178	14.70	10.2	46	31.3	AV	L1	GND
3.721213	22.00	10.3	46	24.0	AV	L1	GND
24.989227	24.40	10.8	50	25.6	AV	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd**Voltage Mains Test FCC Part 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: USB PRINT
Test Site: 2# SHIELDED ROOM
Operator: TIM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/20/2011 / 5:19:04PM

SCAN TABLE: "Voltage(150K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RICO1020212_fin"**

10/20/2011 5:25PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	26.50	10.1	66	39.5	QP	N	GND
0.201429	51.90	10.2	64	11.7	QP	N	GND
0.304839	34.40	10.2	60	25.7	QP	N	GND
0.402898	27.70	10.2	58	30.1	QP	N	GND
2.400794	24.40	10.3	56	31.6	QP	N	GND
24.989227	35.20	10.8	60	24.8	QP	N	GND

MEASUREMENT RESULT: "RICO1020212_fin2"

10/20/2011 5:25PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	48.70	10.2	54	4.9	AV	N	GND
0.302420	31.80	10.2	50	18.4	AV	N	GND
0.503607	23.00	10.2	46	23.0	AV	N	GND
3.841730	21.80	10.3	46	24.2	AV	N	GND
12.005592	20.60	10.6	50	29.4	AV	N	GND
15.741341	30.40	10.5	50	19.6	AV	N	GND

mode 4: NIC PRINT

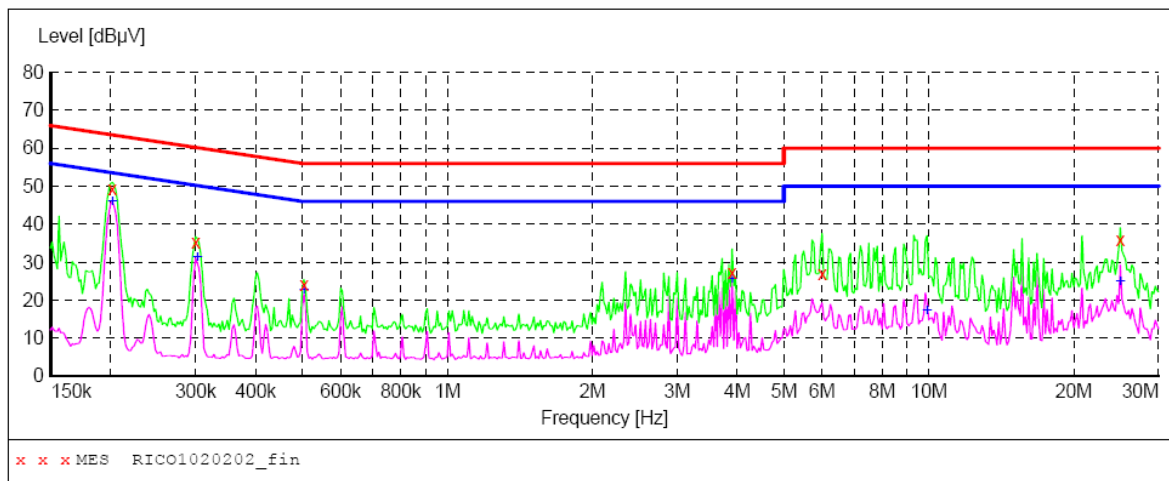
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC Part 15 B

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: NIC PRINT
Test Site: 2# SHIELDED ROOM
Operator: TIM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/20/2011 / 3:48:33PM

SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO1020202_fin"

10/20/2011 3:54PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	49.50	10.2	64	14.1	QP	L1	GND
0.300021	35.30	10.2	60	24.9	QP	L1	GND
0.503607	24.20	10.2	56	31.8	QP	L1	GND
3.903450	27.20	10.3	56	28.8	QP	L1	GND
6.002297	26.90	10.4	60	33.1	QP	L1	GND
24.989227	35.90	10.8	60	24.1	QP	L1	GND

MEASUREMENT RESULT: "RICO1020202_fin2"

10/20/2011 3:54PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	46.10	10.2	54	7.5	AV	L1	GND
0.302420	31.50	10.2	50	18.7	AV	L1	GND
0.503607	22.90	10.2	46	23.1	AV	L1	GND
3.903450	25.70	10.3	46	20.3	AV	L1	GND
9.915870	17.30	10.6	50	32.7	AV	L1	GND
24.989227	24.90	10.8	50	25.1	AV	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC Part 15 B

EUT:

Manufacturer: Laser Printer M/N:Aficio SP 3510SPRICOH

Operating Condition: NIC PRINT

Test Site: 2# SHIELDED ROOM

Operator: Yoully

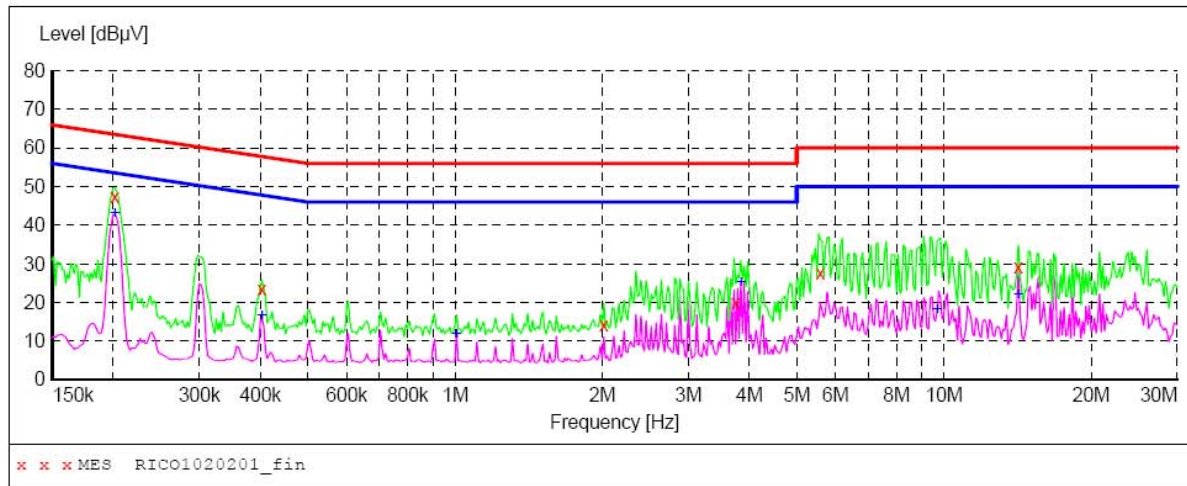
Test Specification: AC 120V/60Hz

Comment:

Start of Test: 10/20/2011 / 3:41:40PM

SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO1020201_fin"

10/20/2011 3:47PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	47.50	10.2	64	16.1	QP	N	GND
0.402898	23.30	10.2	58	34.5	QP	N	GND
2.014760	14.30	10.2	56	41.7	QP	N	GND
3.750990	19.80	10.3	56	36.2	QP	N	GND
5.586920	27.50	10.4	60	32.5	QP	N	GND
14.192368	29.10	10.5	60	30.9	QP	N	GND

MEASUREMENT RESULT: "RICO1020201_fin2"

10/20/2011 3:47PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	43.40	10.2	54	10.2	AV	N	GND
0.402898	16.70	10.2	48	31.1	AV	N	GND
1.007294	11.90	10.2	46	34.1	AV	N	GND
3.841730	25.50	10.3	46	20.5	AV	N	GND
9.681650	18.20	10.6	50	31.8	AV	N	GND
14.192368	22.20	10.5	50	27.8	AV	N	GND

mode 5: USB SCAN

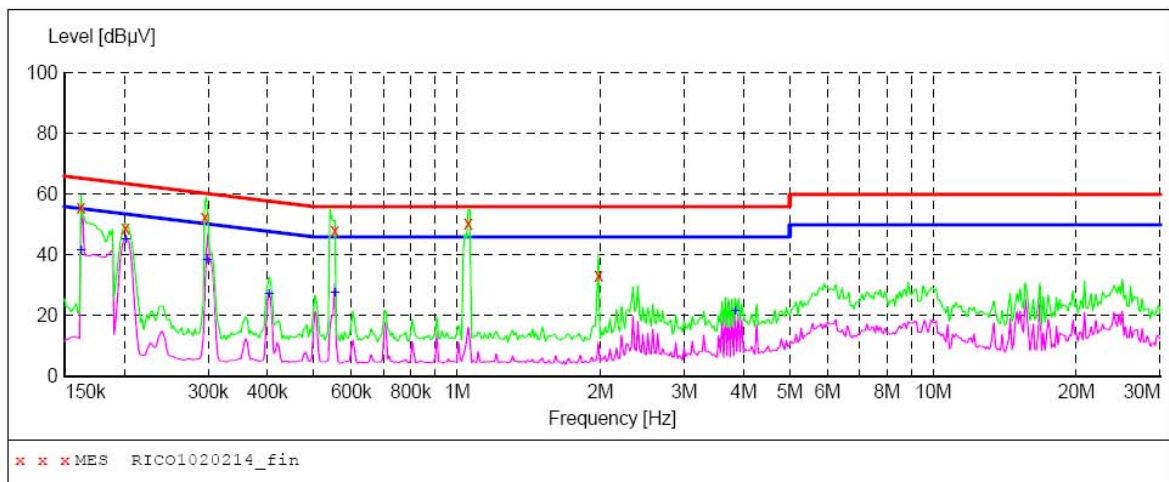
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC Part 15 B

EUT: Laser Printer M/N:Aficio SP 3510SF
 Manufacturer: RICOH
 Operating Condition: USB SCAN
 Test Site: 2# SHIELDED ROOM
 Operator: TIM
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 10/20/2011 / 5:37:17PM

SCAN TABLE: "Voltage(150K-30M)FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO1020214_fin"

11/7/2011 2:57PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.162050	55.60	10.1	65	9.6	QP	L1	GND
0.201429	48.90	10.2	64	14.7	QP	L1	GND
0.295420	52.40	10.2	60	7.8	QP	L1	GND
0.554138	48.10	10.2	56	7.9	QP	L1	GND
1.056620	50.30	10.2	56	5.7	QP	L1	GND
1.982907	33.30	10.2	56	22.7	QP	L1	GND

MEASUREMENT RESULT: "RICO1020214_fin2"

11/7/2011 2:58PM

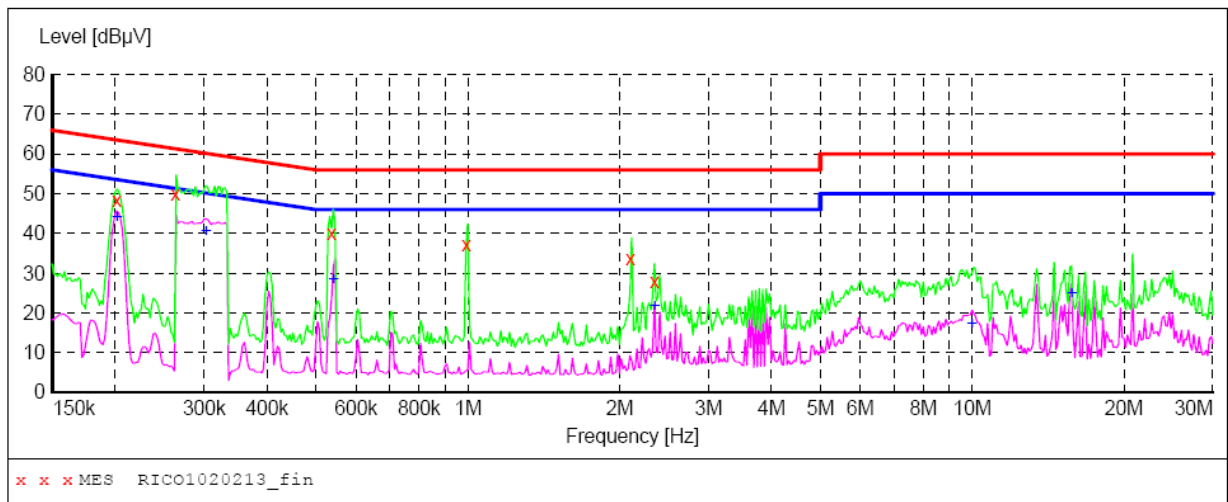
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.162440	41.60	10.1	55	13.7	AV	L1	GND
0.201429	45.40	10.2	54	8.2	AV	L1	GND
0.298420	38.60	10.2	50	11.6	AV	L1	GND
0.402898	27.40	10.2	48	20.4	AV	L1	GND
0.554740	27.70	10.2	46	18.3	AV	L1	GND
3.841730	21.90	10.3	46	24.1	AV	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd**Voltage Mains Test FCC Part 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: USB SCAN
Test Site: 2# SHIELDED ROOM
Operator: TIM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/20/2011 / 5:28:46PM

SCAN TABLE: "Voltage(150K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RICO1020213_fin"**

11/7/2011 2:51PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	48.50	10.2	64	15.1	QP	N	GND
0.263010	50.00	10.2	61	11.4	QP	N	GND
0.536750	40.10	10.2	56	15.9	QP	N	GND
0.992301	37.30	10.2	56	18.7	QP	N	GND
2.100650	33.80	10.2	56	22.2	QP	N	GND
2.344084	27.80	10.3	56	28.2	QP	N	GND

MEASUREMENT RESULT: "RICO1020213_fin2"

11/7/2011 2:49PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	44.10	10.2	54	9.5	AV	N	GND
0.302420	40.60	10.2	50	9.6	AV	N	GND
0.541040	28.70	10.2	46	17.3	AV	N	GND
2.344084	21.80	10.3	46	24.2	AV	N	GND
9.995197	17.50	10.6	50	32.5	AV	N	GND
15.755723	24.90	10.5	50	25.1	AV	N	GND

mode 6: NIC SCAN

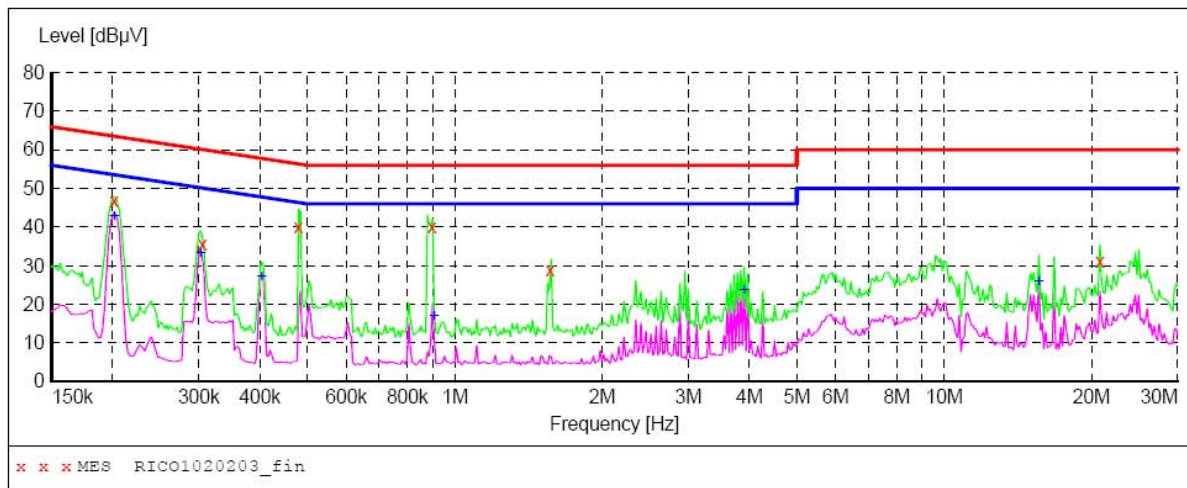
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC Part 15 B

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: NIC SCAN
Test Site: 2# SHIELDED ROOM
Operator: TIM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/20/2011 / 3:57:14PM

SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO1020203_fin"

11/7/2011 3:17PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	46.60	10.2	64	17.0	QP	L1	GND
0.304840	35.60	10.2	60	24.5	QP	L1	GND
0.479280	39.90	10.2	56	16.5	QP	L1	GND
0.898170	40.10	10.2	56	15.9	QP	L1	GND
1.564300	28.90	10.2	56	27.1	QP	L1	GND
20.804656	31.00	10.6	60	29.0	QP	L1	GND

MEASUREMENT RESULT: "RICO1020203_fin2"

11/7/2011 3:19PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	42.90	10.2	54	10.7	AV	L1	GND
0.302420	33.20	10.2	50	17.0	AV	L1	GND
0.402898	27.30	10.2	48	20.5	AV	L1	GND
0.908170	17.20	10.2	46	28.8	AV	L1	GND
3.903450	23.60	10.3	46	22.4	AV	L1	GND
15.616420	25.90	10.5	50	24.1	AV	L1	GND

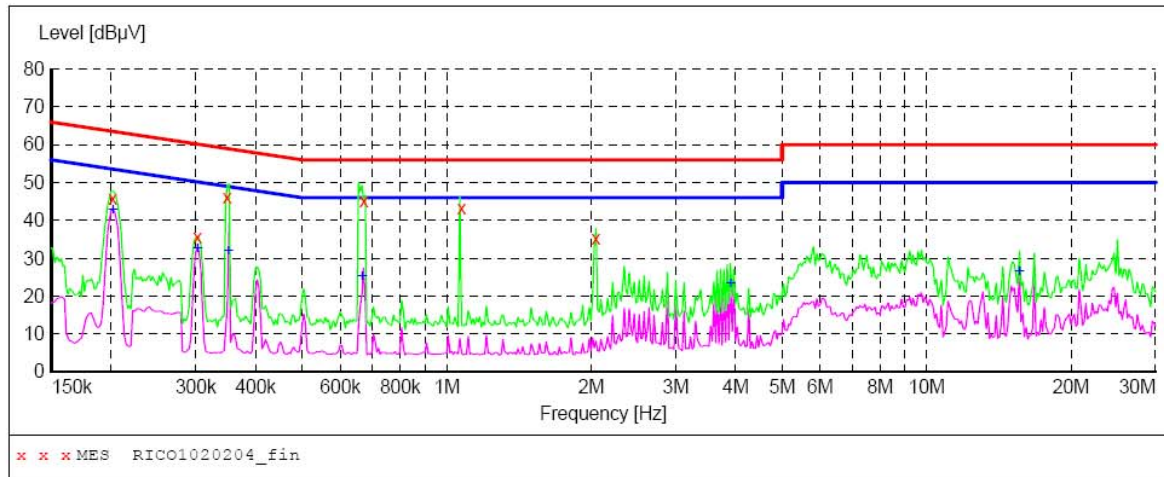
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC Part 15 B

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: NIC SCAN
Test Site: 2# SHIELDED ROOM
Operator: TIM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/20/2011 / 4:04:58PM

SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO1020204_fin"

11/7/2011 3:24PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	45.80	10.2	64	17.8	QP	N	GND
0.302420	35.60	10.2	60	24.6	QP	N	GND
0.348667	46.20	10.2	59	12.7	QP	N	GND
0.671690	45.20	10.2	56	10.8	QP	N	GND
1.073600	43.20	10.2	56	12.8	QP	N	GND
2.047127	35.30	10.2	56	20.7	QP	N	GND

MEASUREMENT RESULT: "RICO1020204_fin2"

11/7/2011 3:25PM

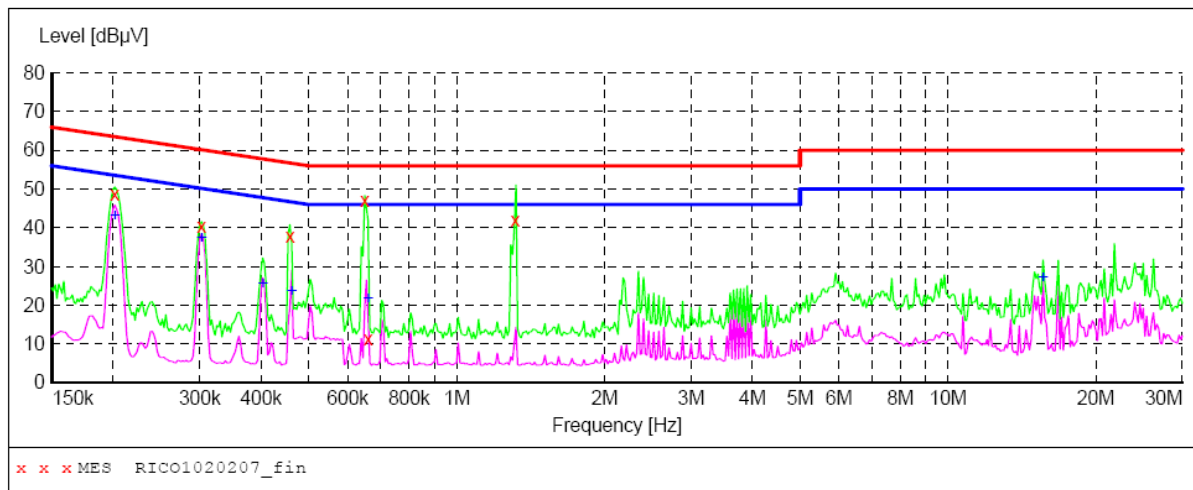
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201425	43.00	10.2	54	10.6	AV	N	GND
0.302420	32.60	10.2	50	17.6	AV	N	GND
0.350670	32.00	10.2	49	16.9	AV	N	GND
0.665590	25.20	10.2	46	20.8	AV	N	GND
3.903450	23.30	10.3	46	22.7	AV	N	GND
15.616420	26.70	10.5	50	23.3	AV	N	GND

mode 7: SCAN TO USB MEMORY*Shenzhen Huatongwei International Inspection CO.,Ltd***Voltage Mains Test FCC Part 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: SCAN TO USB MEMORY
Test Site: 2# SHIELDED ROOM
Operator: TIM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/20/2011 / 4:29:11PM

SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RICO1020207_fin"**

11/7/2011 2:18PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	48.80	10.2	64	14.8	QP	L1	GND
0.302420	40.40	10.2	60	19.8	QP	L1	GND
0.458030	37.80	10.2	57	18.8	QP	L1	GND
0.649520	47.00	10.2	56	9.0	QP	L1	GND
0.660310	11.40	10.2	56	44.6	QP	L1	GND
1.315250	41.80	10.2	56	14.2	QP	L1	GND

MEASUREMENT RESULT: "RICO1020207_fin2"

11/7/2011 2:20PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	43.40	10.2	54	10.6	AV	L1	GND
0.302420	37.60	10.2	50	12.6	AV	L1	GND
0.402898	25.60	10.2	48	22.2	AV	L1	GND
0.461341	23.70	10.2	47	23.0	AV	L1	GND
0.660310	21.90	10.2	46	24.1	AV	L1	GND
15.616420	27.20	10.5	50	22.8	AV	L1	GND

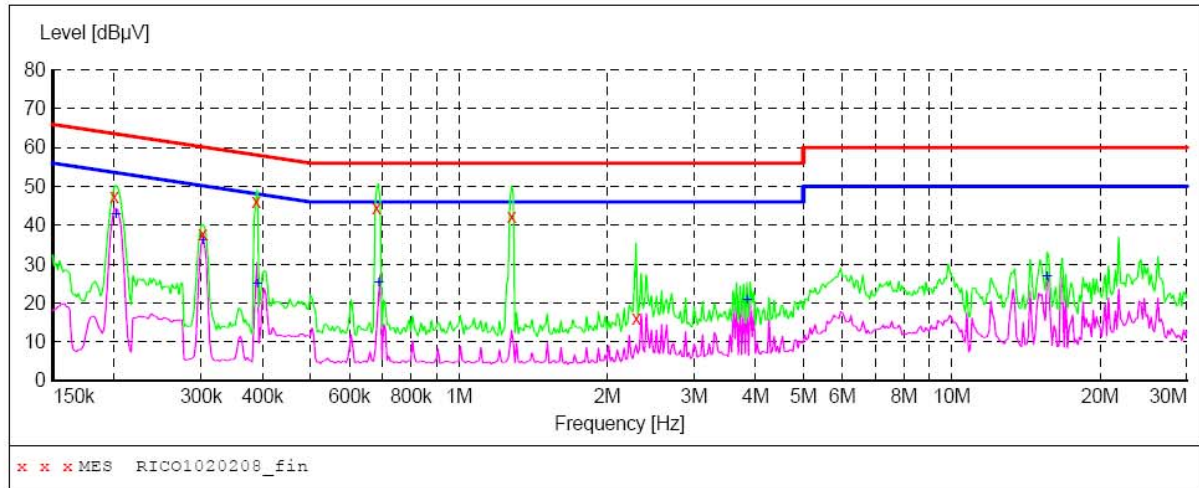
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC Part 15 B

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: SCAN TO USB MEMORY
Test Site: 2# SHIELDED ROOM
Operator: TIM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/20/2011 / 4:36:28PM

SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO1020208_fin"

11/7/2011 2:28PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.199830	47.30	10.2	64	16.3	QP	N	GND
0.302420	37.70	10.2	60	22.5	QP	N	GND
0.388380	46.20	10.2	58	11.8	QP	N	GND
0.680647	44.40	10.2	56	11.6	QP	N	GND
1.279538	42.20	10.2	56	13.8	QP	N	GND
2.288714	16.10	10.3	56	39.9	QP	N	GND

MEASUREMENT RESULT: "RICO1020208_fin2"

11/7/2011 2:27PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	43.00	10.2	54	10.6	AV	N	GND
0.302420	36.20	10.2	50	14.0	AV	N	GND
0.390257	25.10	10.2	48	23.0	AV	N	GND
0.688190	25.30	10.2	46	20.7	AV	N	GND
3.841730	20.90	10.3	46	25.1	AV	N	GND
15.616420	26.90	10.5	50	23.1	AV	N	GND

mode 8:FAX TX

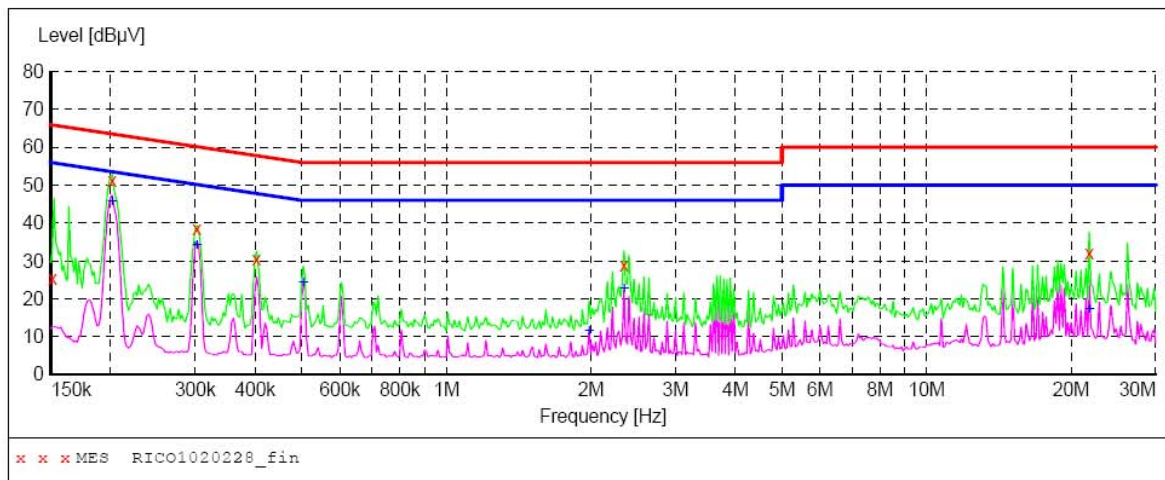
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC Part 15 B

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: FAX TX
Test Site: 2# SHIELDED ROOM
Operator: TIM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/20/2011 / 5:14:37PM

SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO1020228_fin"

10/20/2011 5:13PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.151200	25.40	10.1	66	40.5	QP	L1	GND
0.201429	51.20	10.2	64	12.4	QP	L1	GND
0.302420	38.50	10.2	60	21.7	QP	L1	GND
0.402898	30.60	10.2	58	27.2	QP	L1	GND
2.344084	28.90	10.3	56	27.1	QP	L1	GND
21.823462	32.20	10.6	60	27.8	QP	L1	GND

MEASUREMENT RESULT: "RICO1020228_fin2"

10/20/2011 5:13PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	45.70	10.2	54	7.9	AV	L1	GND
0.302420	34.40	10.2	50	15.8	AV	L1	GND
0.503607	24.30	10.2	46	21.7	AV	L1	GND
1.982907	11.70	10.2	46	34.3	AV	L1	GND
2.344084	22.80	10.3	46	23.2	AV	L1	GND
21.823462	17.30	10.6	50	32.7	AV	L1	GND

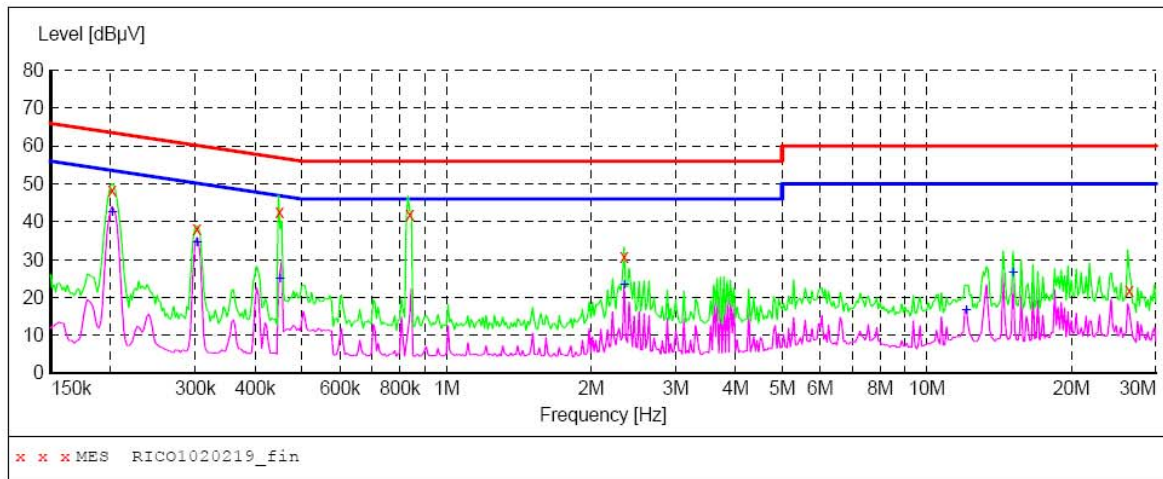
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC Part15 B

EUT: Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: FAX TX
Test Site: 2# SHIELDED ROOM
Operator: Yoully
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/20/2011 / 6:45:30PM

SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO1020219_fin"

11/7/2011 3:12PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	48.40	10.2	64	15.6	QP	N	GND
0.302420	38.20	10.2	60	22.0	QP	N	GND
0.449440	42.70	10.2	57	14.2	QP	N	GND
0.838620	41.80	10.2	56	14.2	QP	N	GND
2.344084	30.90	10.3	56	25.1	QP	N	GND
26.422660	21.90	10.8	60	38.1	QP	N	GND

MEASUREMENT RESULT: "RICO1020219_fin2"

11/7/2011 3:13PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	42.70	10.2	54	10.9	AV	N	GND
0.302420	34.60	10.2	50	15.6	AV	N	GND
0.450440	24.90	10.2	47	42.0	AV	N	GND
2.344084	23.50	10.3	46	22.5	AV	N	GND
12.101645	16.70	10.6	50	33.3	AV	N	GND
15.126522	26.70	10.5	50	23.3	AV	N	GND

mode 9:FAX RX

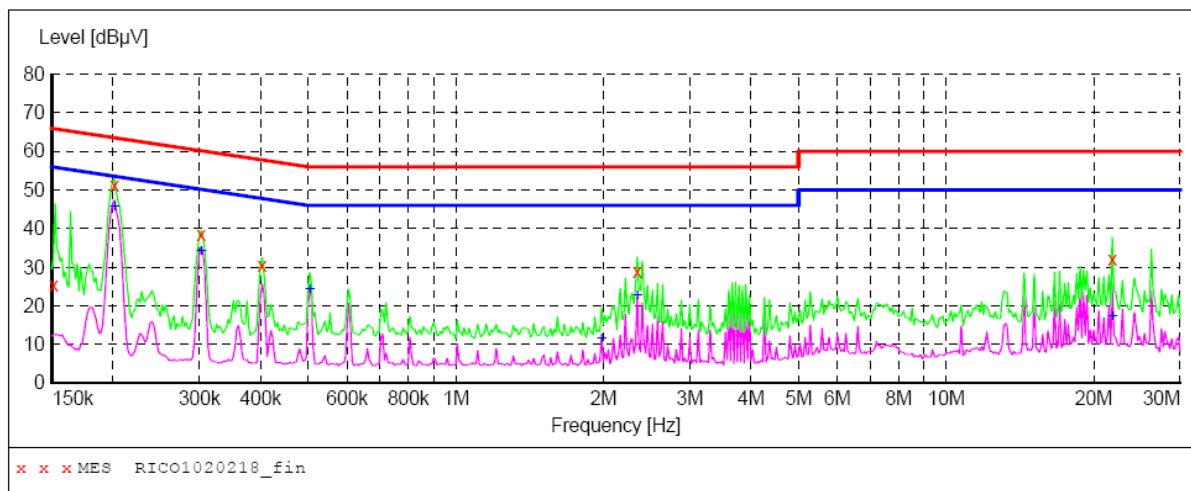
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC Part 15 B

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: FAX RX
Test Site: 2# SHIELDED ROOM
Operator: TIM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/20/2011 / 6:31:26PM

SCAN TABLE: "Voltage(150K-30M)FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO1020218_fin"

10/20/2011 6:37PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.151200	25.40	10.1	66	40.5	QP	L1	GND
0.201429	51.20	10.2	64	12.4	QP	L1	GND
0.302420	38.50	10.2	60	21.7	QP	L1	GND
0.402898	30.60	10.2	58	27.2	QP	L1	GND
2.344084	28.90	10.3	56	27.1	QP	L1	GND
21.823462	32.20	10.6	60	27.8	QP	L1	GND

MEASUREMENT RESULT: "RICO1020218_fin2"

10/20/2011 6:37PM

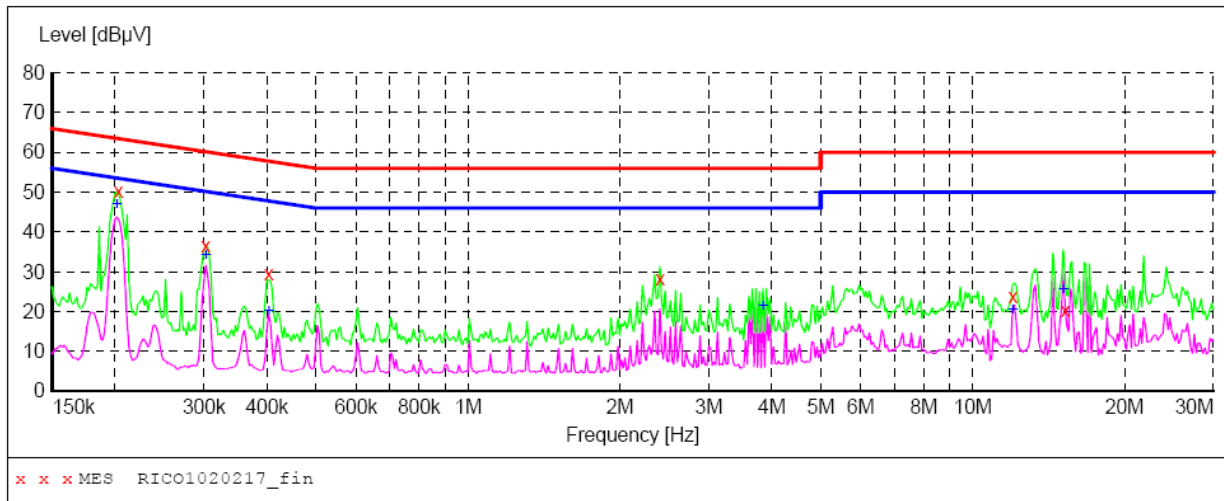
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.201429	45.70	10.2	54	7.9	AV	L1	GND
0.302420	34.40	10.2	50	15.8	AV	L1	GND
0.503607	24.30	10.2	46	21.7	AV	L1	GND
1.982907	11.70	10.2	46	34.3	AV	L1	GND
2.344084	22.80	10.3	46	23.2	AV	L1	GND
21.823462	17.30	10.6	50	32.7	AV	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd**Voltage Mains Test FCC Part 15 B**

EUT: Laser Printer M/N:Aficio SP 3510SF
Manufacturer: RICOH
Operating Condition: FAX RX
Test Site: 2# SHIELDED ROOM
Operator: TIM
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 10/20/2011 / 5:59:31PM

SCAN TABLE: "Voltage(150K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RICO1020217_fin"**

10/20/2011 6:05PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.203040	50.30	10.2	64	13.2	QP	N	GND
0.302420	36.50	10.2	60	23.7	QP	N	GND
0.402890	29.40	10.2	58	28.4	QP	N	GND
2.400794	28.20	10.3	56	27.8	QP	N	GND
12.005600	23.70	10.6	60	36.3	QP	N	GND
15.247534	20.40	10.5	60	39.6	QP	N	GND

MEASUREMENT RESULT: "RICO1020217_fin2"

10/20/2011 6:05PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.201429	47.20	10.2	54	6.4	AV	N	GND
0.302420	34.30	10.2	50	15.9	AV	N	GND
0.402898	20.30	10.2	48	27.5	AV	N	GND
3.841730	21.60	10.3	46	24.4	AV	N	GND
12.005600	20.50	10.6	50	29.5	AV	N	GND
15.126522	25.80	10.5	50	24.2	AV	N	GND