



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.....: TRE1307004401 R/C:25091

FCC ID.....: BBP-MFSP204SFNW1

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Wenliang Li

Date of issue.....: July 19, 2013

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 Co., LTD.

Address.....: 810 Shimoimaizumi,Ebina City, Kanagawa-Pref., 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: Printer

Trade Mark: RICOH

Model/Type reference.....: SP 204SFNw

Listed Model.....: SP 203SFNw

Ratings.....: 120V/60Hz 8A 900W

Result.....: Positive

EMC -- TEST REPORT

Test Report No. :	TRE1307004401	July 19,2013
		Date of issue

Equipment under Test : Printer

Model / Type : SP 204SFNw

Listed Model : SP 203SFNw

Applicant : RICOH Co., LTD.

Address : 810 Shimoimaizumi,Ebina City, Kanagawa-Pref., 243-0460 Japan

Manufacturer : RICOH Co., LTD.

Address : 3-6, Naka-magome 1-Chome Ohta-ku,Tokyo 143-8555 Japan

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	:	July 08, 2013
Testing commenced on	:	July 08, 2013
Testing concluded on	:	July 19, 2013

2.2. Equipment under Test

Power supply system utilised

Power supply voltage	:	<input type="radio"/> 230V / 50 Hz	<input type="radio"/> 115V / 60Hz
		<input type="radio"/> 12 V DC	<input type="radio"/> 24 V DC
		<input checked="" type="radio"/> Other (specified in blank below)	

AC 120V/60Hz

2.3. Short description of the Equipment under Test (EUT)

The EUT is a laser printer with copier, scanner, printer, and fax.

Model Difference: They are similar, except refill tone

1. There is a WIFI module in SP 204SFNw and SP 203SFNw .
2. SP 204SFNw and SP 203SFNw are similar, but different from the tone box which does not affect EMC.

Unless otherwise indicated, all tests were conducted on SP 204SFNw.

Tests performed on SP 204SFNw were considered to be representative of SP 203SFNw.

2.4. 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.

2.5. EUT configuration

1) Equipment under test

Kind of equipment	Manufacturer	Model name	Serial number	Remarks
EUT	RICOH	SP 204SFNw	LM151170005	

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

Kind of equipment	Mode name	Operates Frequency	Remark
EUT	SP 204SFNw	480MHz	USB

3) Supporting equipment

Kind of equipment	Manufacturer	Model name	Serial number	Remarks
Notebook 1	LENOVO	ThinkPad X201i	R8-7DYTX 10/11	For EMI
G3 Exchanger	TENDA	PABX	—	
FAX Machine	RICOH	SP 204SFNw	LM150270003	

4) Cables Used

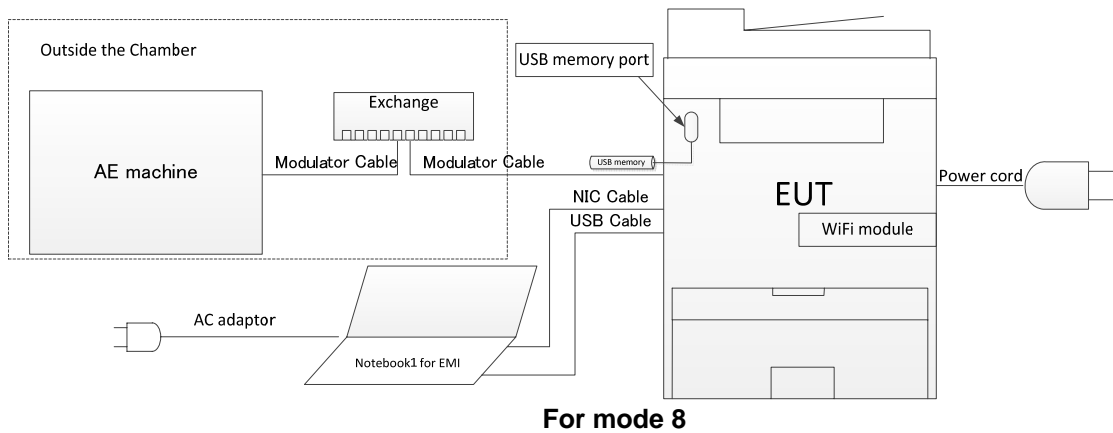
	Cable Name	Length	Shielded	Maker	Remarks
1	USB Cable	2m	YES	RICOH	
2	NIC Cable	3m	No	Black Box	
3	Power Cable	1.5m	No	Volex	

5) Operating modes:

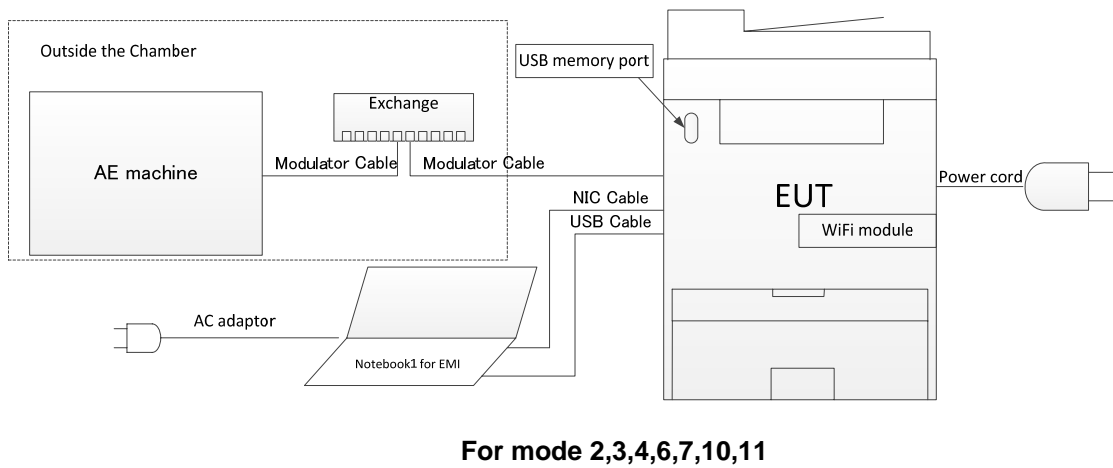
No.	Operating modes	RE	CE	Remarks
1	Standby	<input type="radio"/>	<input type="radio"/>	
2	Copy	<input type="radio"/>	<input type="radio"/>	
3	USB Print	<input type="radio"/>	<input type="radio"/>	
4	NIC Print	<input type="radio"/>	<input type="radio"/>	
5	WIFI Print	<input type="radio"/>	<input type="radio"/>	
6	USB Scan	<input type="radio"/>	<input type="radio"/>	
7	NIC Scan	<input type="radio"/>	<input type="radio"/>	
8	Scan to USB Memory	<input type="radio"/>	<input type="radio"/>	
9	WIFI Scan	<input type="radio"/>	<input type="radio"/>	
10	FAX Tx	<input type="radio"/>	<input type="radio"/>	
11	FAX Rx	<input type="radio"/>	<input type="radio"/>	

6)EUT Setup:

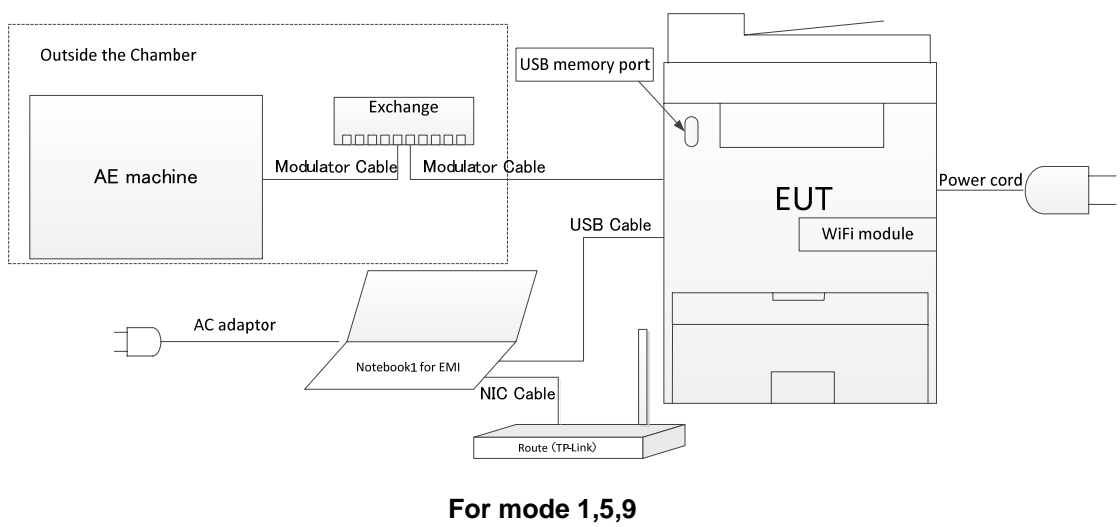
Opal-MF machine system config



Opal-MF machine system config



Opal-MF machine system config



2.6. NOTE

1. The EUT is a Printer with WLAN function, The functions of the EUT listed as below:

	Test Standards	Reference Report
	FCC Part 15 Subpart B	TRE1307004401
WLAN 802.11b/g/n	FCC Part 15 Subpart C	TRE1307004402
MPE REPORT	FCC Per 47 CFR 2.1091(b)	TRE1307004403

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

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. 01, 2012. Valid time is until Feb. 28, 2015.

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 Dec. 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 June. 01, 2012, valid time is until Jun. 01, 2015.

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.

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, 2012. Valid time is until Dec. 23, 2015.

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, 2012. Valid time is until Dec. 19, 2015.

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, 2013. Valid time is until May 06, 2016.

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, 2016.

3.3. Environmental conditions

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

Temperature: 15-35 ° C

Humidity: 30-60 %

Atmospheric pressure: 950-1050mbar

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	4.65dB	(1)
Radiated Emission	1G~2G	5.16dB	(1)
Conducted Disturbance	0.15~30 MHz	3.42dB	(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	2012/10/27
2	EMI TEST RECEIVER	Rohde & Schwarz	ESI 26	100009	2012/10/27
3	RF TEST PANEL	Rohde & Schwarz	TS / RSP	335015/ 0017	2012/10/27
4	TURNTABLE	ETS	2088	2149	2012/10/27
5	ANTENNA MAST	ETS	2075	2346	2012/10/27
6	EMI TEST SOFTWARE	Rohde & Schwarz	ESK1	N/A	2012/10/27
7	Double-Ridged-Waveguide Horn Antenna	Rohde & Schwarz	HF906	100039	2012/10/27
8	Semi-anechoic chamber	ETS-LINDGREN	AJ 593 HTW	N/A	2012/10/27

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	Rohde & Schwarz	ESCS30	100038	2012/10/27
2	Artificial Mains	Rohde & Schwarz	ESH2-Z5	100028	2012/10/27
3	Artificial Mains	Rohde & Schwarz	ESH3-Z5	100040	2012/10/27
4	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100044	2012/10/27
5	EMI Test Software	Rohde & Schwarz	ESK1	N/A	2012/10/27
6	3# shielded room	ETS-LINDGREN	RFD-100	2406	N/A

The Cal.Interval was one year.

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 480MHz, so the measurement was made up to 2 GHz.

4.1.3. Description of the test set-up

4.1.3.1. Operating Condition

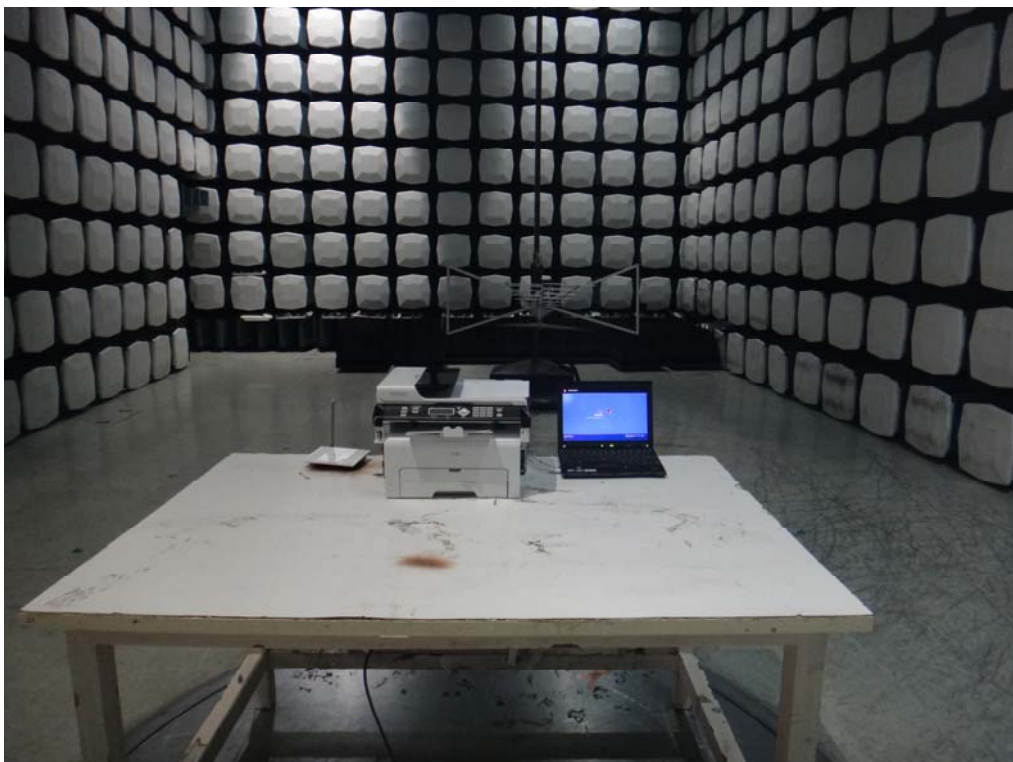
The EUT is set to work that shall be carried out respectively Standby, Print, ADF Copy, Scan, FAX Tx, FAX Rx modes on different motor, Stepping motor and DC motor during the test and the results of the maximum emanation are recorded.

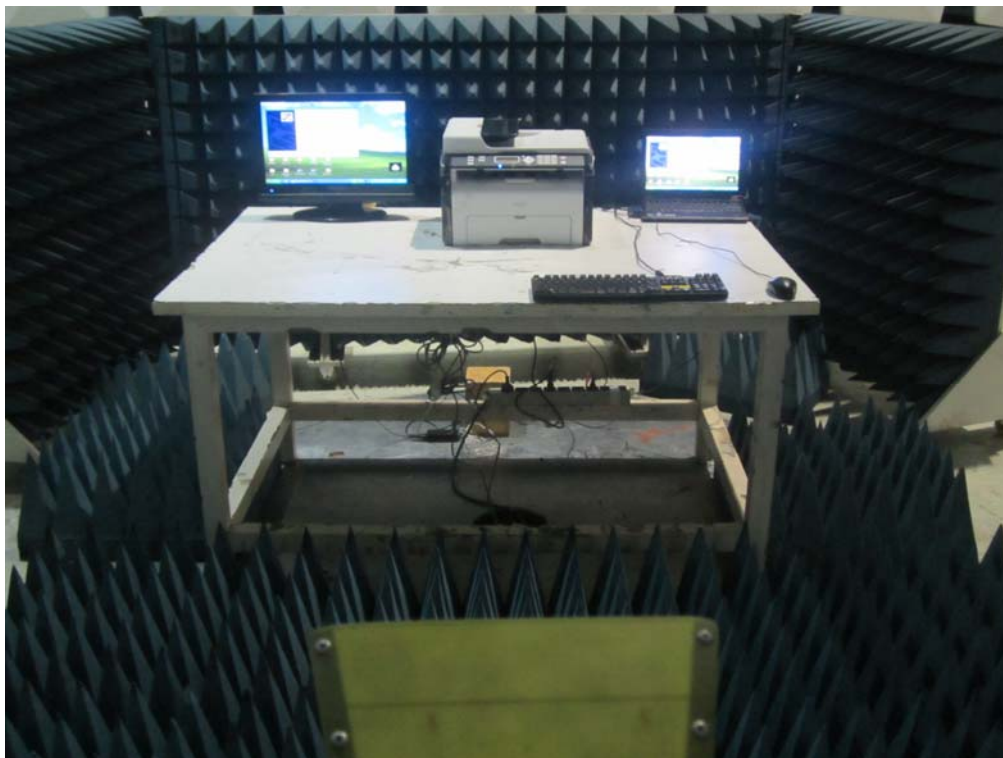
4.1.3.2. Test Configuration and Procedure

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

The average measurement was not performed when the peak measured data under the limit of average detection.

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)

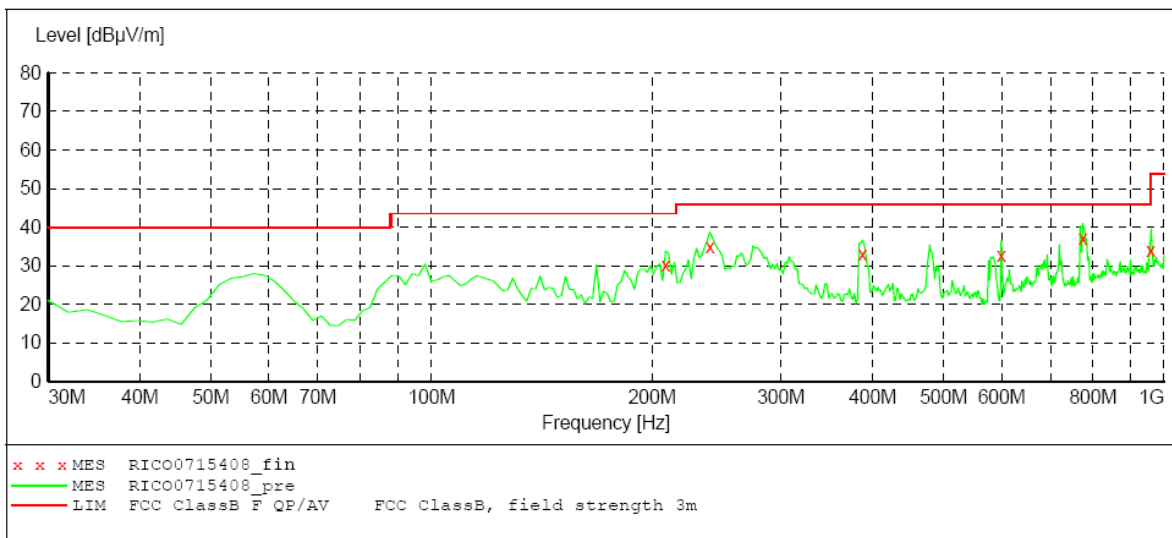
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: STANDBY
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:05:30PM

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



MEASUREMENT RESULT: "RICO0715408_fin"

7/15/2013 9:07PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
208.837675	30.80	-19.3	43.5	12.7	QP	100.0	183.00	HORIZONTAL
239.939880	35.70	-17.3	46.0	10.3	QP	100.0	344.00	HORIZONTAL
387.675351	33.60	-13.9	46.0	12.4	QP	100.0	349.00	HORIZONTAL
599.559118	33.40	-10.6	46.0	12.6	QP	100.0	95.00	HORIZONTAL
774.509018	38.00	-6.9	46.0	8.0	QP	100.0	242.00	HORIZONTAL
959.178357	34.70	-4.2	46.0	11.3	QP	100.0	218.00	HORIZONTAL

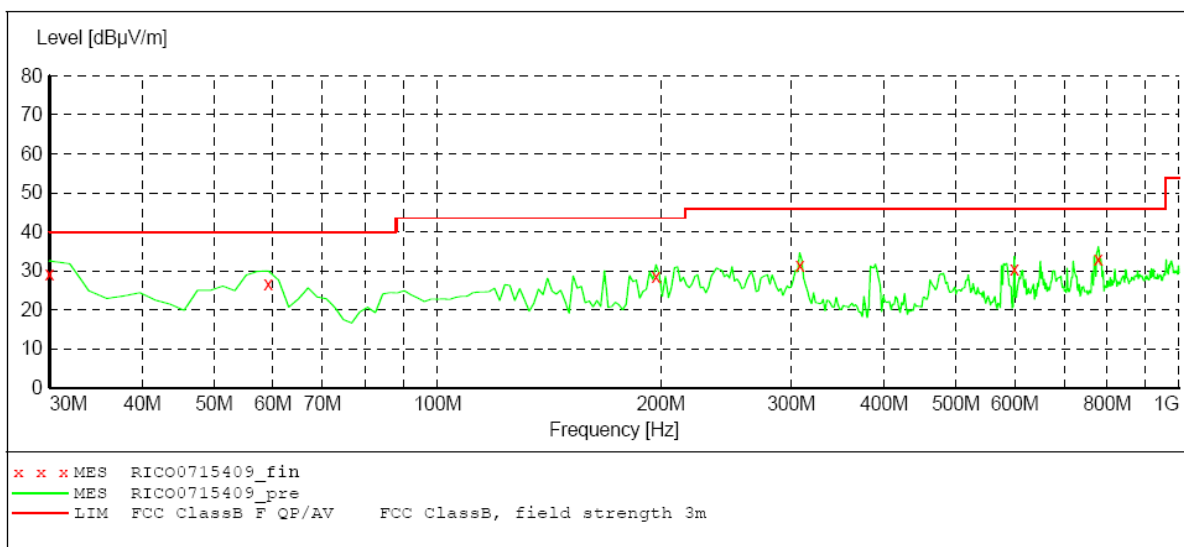
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: STANDBY
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:07:53PM

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



MEASUREMENT RESULT: "RICO0715409_fin"

7/15/2013 9:09PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	29.50	-10.0	40.0	10.5	QP	100.0	269.00	VERTICAL
59.158317	26.90	-23.5	40.0	13.1	QP	100.0	245.00	VERTICAL
197.174349	28.60	-19.9	43.5	14.9	QP	100.0	263.00	VERTICAL
307.975952	31.60	-14.8	46.0	14.4	QP	100.0	222.00	VERTICAL
599.559118	30.70	-10.6	46.0	15.3	QP	100.0	21.00	VERTICAL
778.396794	33.20	-6.7	46.0	12.8	QP	100.0	232.00	VERTICAL

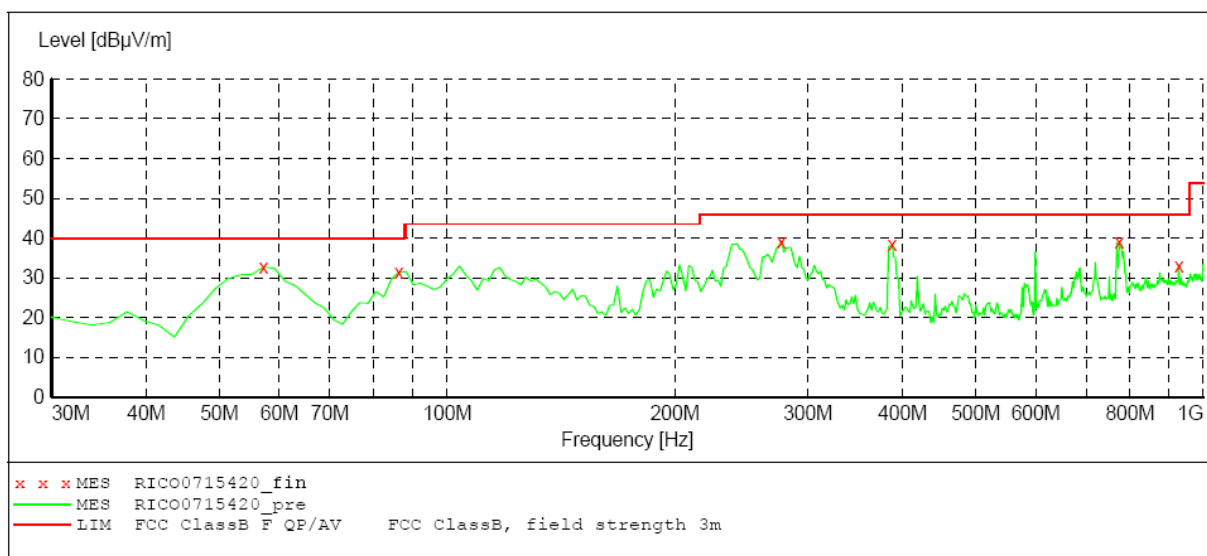
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: COPY
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:40:47PM

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: "RICO0715420_fin"

7/20/2013 2:49PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
57.214429	32.70	-23.1	40.0	7.3	QP	300.0	59.00	HORIZONTAL
86.372745	31.40	-19.4	40.0	8.6	QP	300.0	360.00	HORIZONTAL
276.873747	39.10	-16.3	46.0	6.9	QP	100.0	65.00	HORIZONTAL
387.675351	38.30	-13.9	46.0	7.7	QP	100.0	23.00	HORIZONTAL
774.509018	39.10	-6.9	46.0	6.9	QP	100.0	242.00	HORIZONTAL
928.076152	33.00	-4.5	46.0	13.0	QP	300.0	345.00	HORIZONTAL

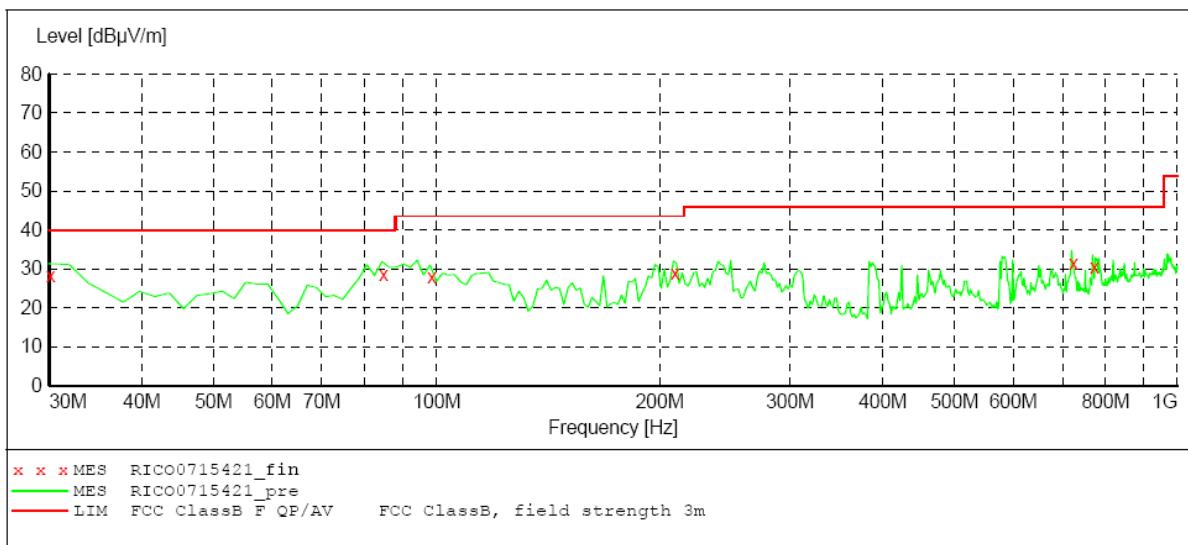
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: COPY
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:43:05PM

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



MEASUREMENT RESULT: "RICO0715421_fin"

7/15/2013 9:44PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	29.30	-10.0	40.0	10.7	QP	100.0	251.00	VERTICAL
84.428858	29.80	-19.7	40.0	10.2	QP	100.0	88.00	VERTICAL
98.036072	28.90	-18.5	43.5	14.6	QP	100.0	144.00	VERTICAL
208.837675	30.00	-19.3	43.5	13.5	QP	100.0	268.00	VERTICAL
720.080160	32.70	-7.2	46.0	13.3	QP	100.0	281.00	VERTICAL
768.677355	31.60	-7.2	46.0	14.4	QP	100.0	100.00	VERTICAL

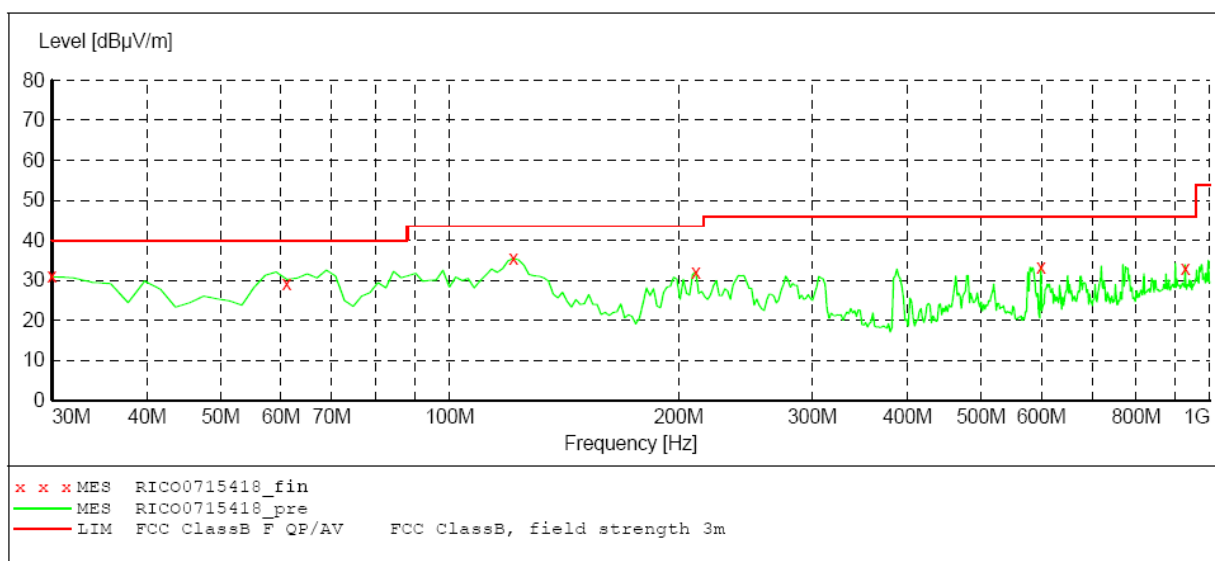
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: USB PRINT
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:34:30PM

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: "RICO0715418_fin"

7/20/2013 2:47PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	30.90	-10.0	40.0	9.1	QP	100.0	83.00	VERTICAL
61.102204	29.20	-23.4	40.0	10.8	QP	100.0	18.00	VERTICAL
121.362725	35.40	-17.9	43.5	8.1	QP	100.0	0.00	VERTICAL
210.781563	32.10	-19.2	43.5	11.4	QP	100.0	273.00	VERTICAL
599.559118	33.40	-10.6	46.0	12.6	QP	100.0	297.00	VERTICAL
928.076152	32.90	-4.5	46.0	13.1	QP	100.0	285.00	VERTICAL

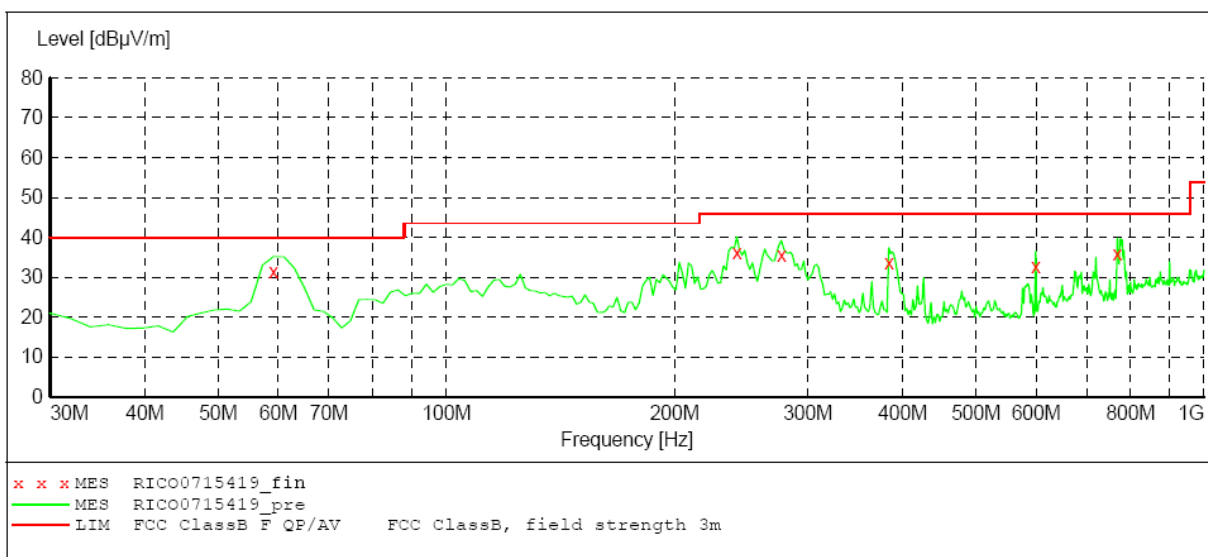
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: USB PRINT
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:36:12PM

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



MEASUREMENT RESULT: "RICO0715419_fin"

7/15/2013 9:38PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
59.158317	33.10	-23.5	40.0	6.9	QP	300.0	3.00	HORIZONTAL
241.883768	38.00	-17.2	46.0	8.0	QP	100.0	340.00	HORIZONTAL
276.873747	37.20	-16.3	46.0	8.8	QP	100.0	74.00	HORIZONTAL
383.787575	35.40	-14.1	46.0	10.6	QP	100.0	359.00	HORIZONTAL
599.559118	34.40	-10.6	46.0	11.6	QP	100.0	257.00	HORIZONTAL
768.677355	37.70	-7.2	46.0	8.3	QP	100.0	239.00	HORIZONTAL

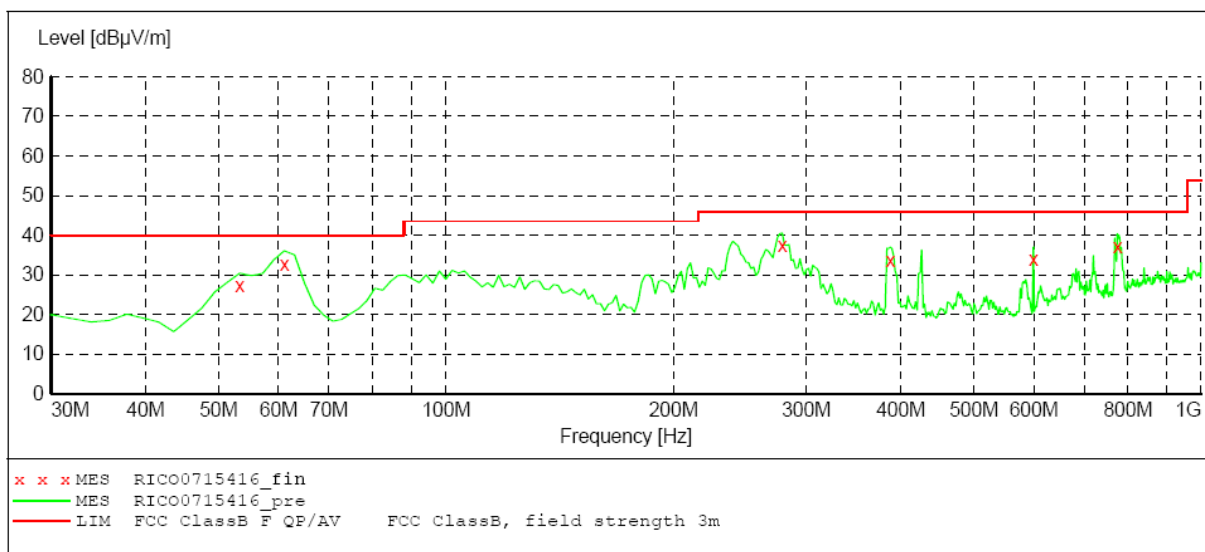
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: NIC PRINT
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:29:52PM

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



MEASUREMENT RESULT: "RICO0715416_fin"

7/15/2013 9:31PM

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
53.326653	26.40	-21.9	40.0	13.6	QP	300.0	13.00	HORIZONTAL
61.102204	32.00	-23.4	40.0	7.0	QP	300.0	208.00	HORIZONTAL
278.817635	36.50	-16.3	46.0	9.5	QP	100.0	70.00	HORIZONTAL
387.675351	32.90	-13.9	46.0	13.1	QP	100.0	358.00	HORIZONTAL
599.559118	33.00	-10.6	46.0	13.0	QP	100.0	86.00	HORIZONTAL
774.509018	36.30	-6.9	46.0	9.7	QP	100.0	239.00	HORIZONTAL

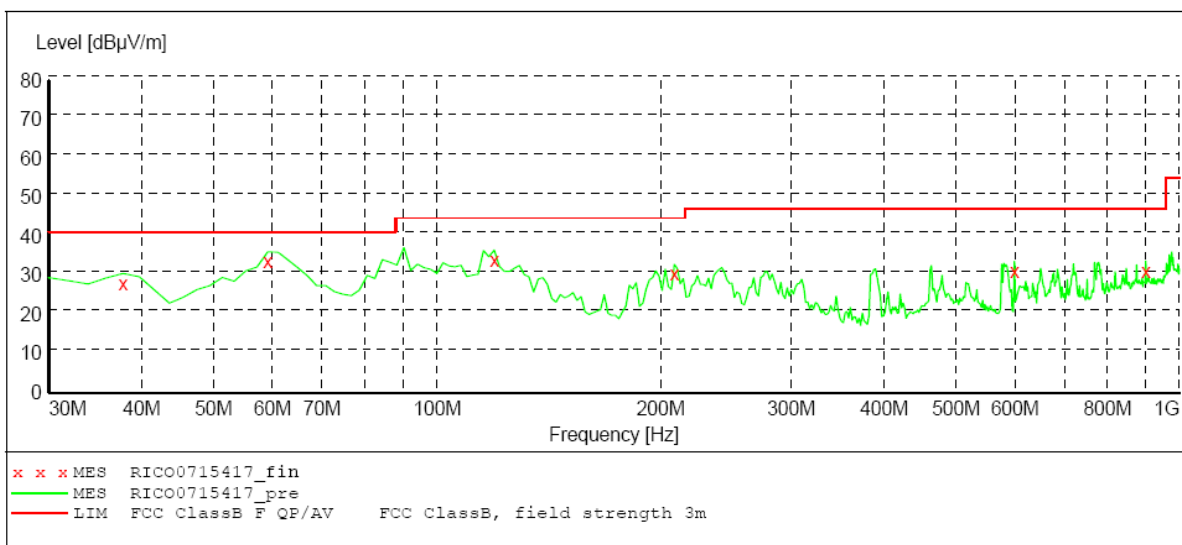
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: NIC PRINT
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:32:09PM

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



MEASUREMENT RESULT: "RICO0715417_fin"

7/15/2013 9:33PM

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
37.775551	26.50	-13.9	40.0	13.5	QP	100.0	0.00	VERTICAL
59.158317	32.10	-23.5	40.0	7.9	QP	100.0	239.00	VERTICAL
119.418838	32.50	-17.8	43.5	11.0	QP	100.0	0.00	VERTICAL
208.837675	28.90	-19.3	43.5	14.6	QP	100.0	263.00	VERTICAL
599.559118	29.70	-10.6	46.0	16.3	QP	100.0	299.00	VERTICAL
900.861723	29.70	-4.8	46.0	16.3	QP	100.0	257.00	VERTICAL

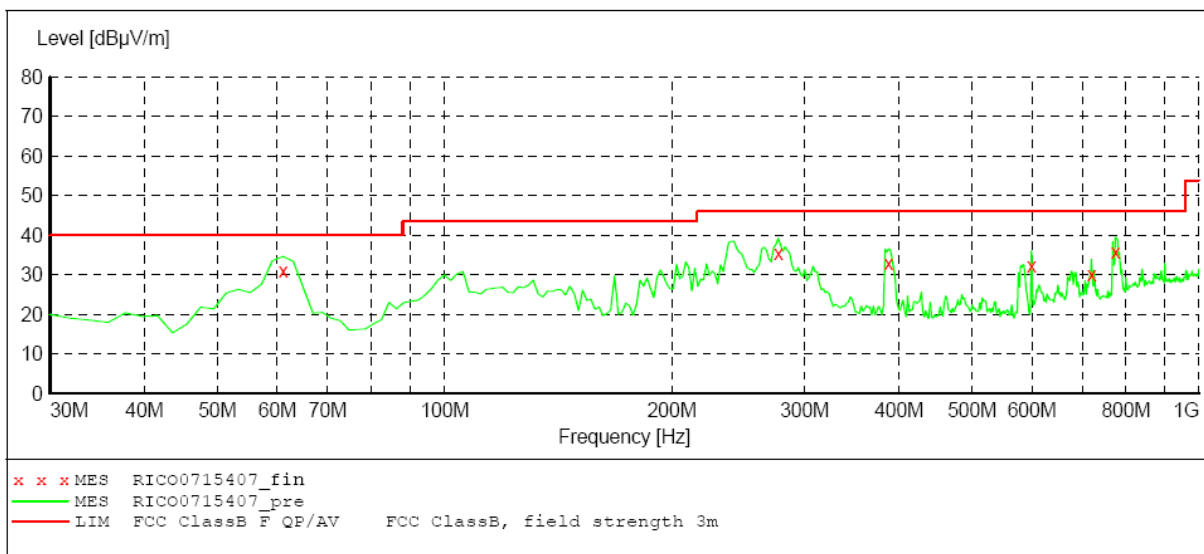
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNw
 Manufacturer: RICOH
 Operating Condition: WIFI PRINT
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 8:57:00PM

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

Start	Stop	Step	Field Strength(30M-1G)	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	



MEASUREMENT RESULT: "RICO0715407_fin"

7/15/2013 8:58PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
61.102204	31.70	-23.4	40.0	8.3	QP	300.0	193.00	HORIZONTAL
276.873747	36.20	-16.3	46.0	9.8	QP	100.0	62.00	HORIZONTAL
387.675351	33.60	-13.9	46.0	12.4	QP	100.0	9.00	HORIZONTAL
599.559118	33.10	-10.6	46.0	12.9	QP	100.0	86.00	HORIZONTAL
720.080160	31.00	-7.2	46.0	15.0	QP	100.0	248.00	HORIZONTAL
774.509018	36.50	-6.9	46.0	9.5	QP	100.0	241.00	HORIZONTAL

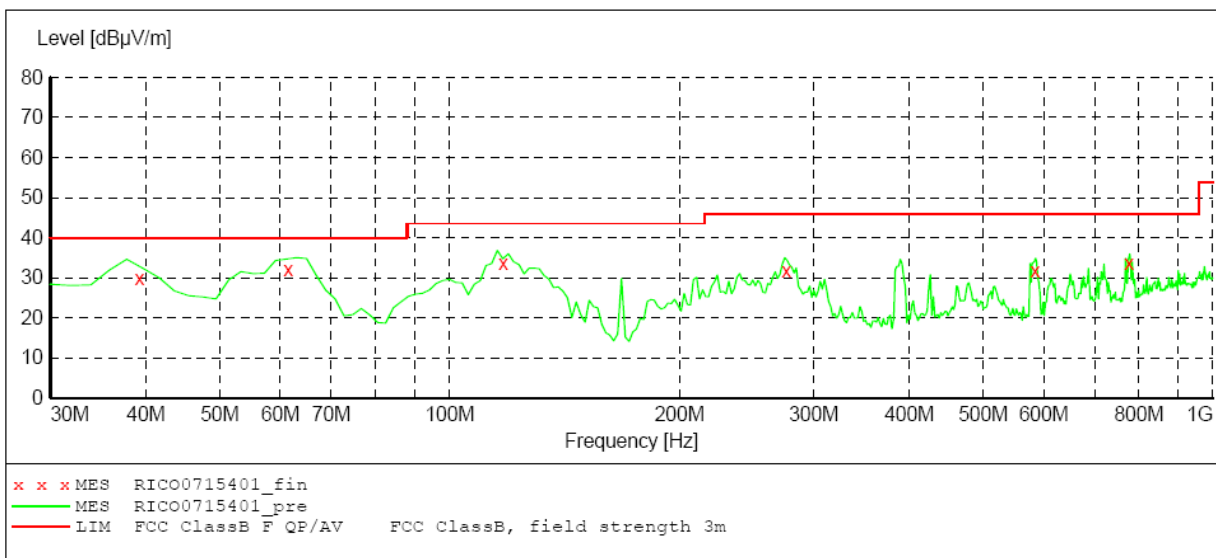
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: WIFI PRINT
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 8:21:05PM

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: "RICO0715401_fin"

7/20/2013 2:40PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
39.240000	29.60	-14.9	40.0	10.4	QP	100.0	231.00	VERTICAL
61.500000	31.90	-23.3	40.0	8.1	QP	100.0	198.00	VERTICAL
117.600000	33.70	-18.0	43.5	9.8	QP	100.0	340.00	VERTICAL
276.360000	31.70	-16.3	46.0	14.3	QP	100.0	137.00	VERTICAL
585.180000	31.70	-11.0	46.0	14.3	QP	100.0	320.00	VERTICAL
776.760000	33.60	-6.8	46.0	12.4	QP	100.0	222.00	VERTICAL

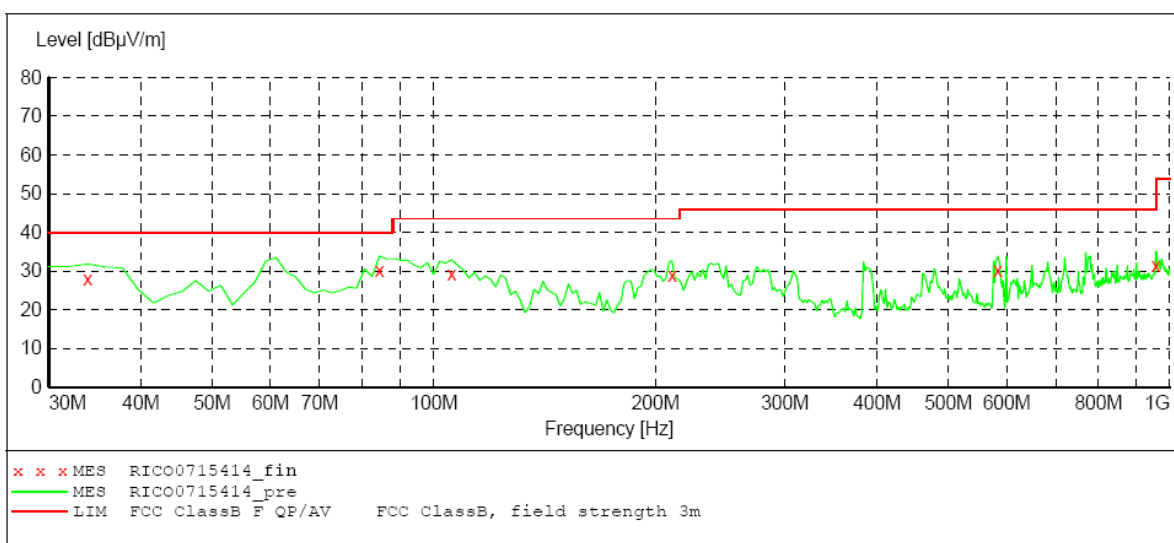
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: USB SCAN
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:25:21PM

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



MEASUREMENT RESULT: "RICO0715414_fin"

7/15/2013 9:26PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
33.887776	28.80	-12.0	40.0	11.2	QP	100.0	22.00	VERTICAL
84.428858	30.80	-19.7	40.0	9.2	QP	100.0	68.00	VERTICAL
105.811623	29.90	-18.2	43.5	13.6	QP	100.0	216.00	VERTICAL
210.781563	29.60	-19.2	43.5	13.9	QP	100.0	239.00	VERTICAL
584.008016	30.80	-11.0	46.0	15.2	QP	100.0	168.00	VERTICAL
957.234469	32.10	-4.3	46.0	13.9	QP	100.0	329.00	VERTICAL

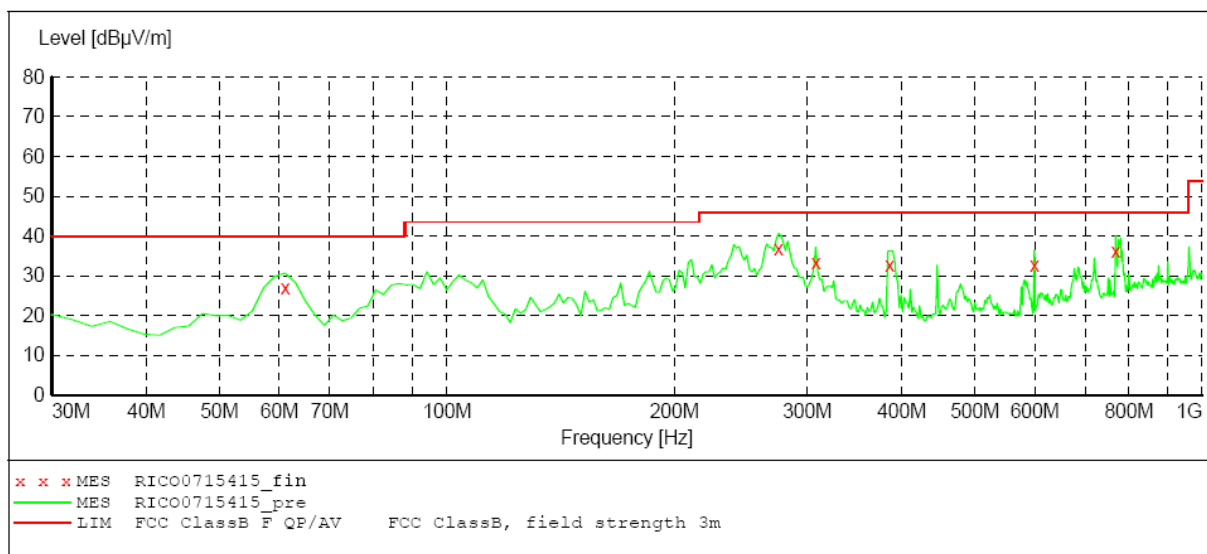
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO., LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: USB SCAN
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:27:05PM

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



MEASUREMENT RESULT: "RICO0715415_fin"

7/15/2013 9:29PM

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
61.102204	26.60	-23.4	40.0	13.4	QP	300.0	193.00	HORIZONTAL
274.929860	36.70	-16.3	46.0	9.3	QP	100.0	68.00	HORIZONTAL
307.975952	33.20	-14.8	46.0	12.8	QP	100.0	129.00	HORIZONTAL
385.731463	32.30	-14.0	46.0	13.7	QP	100.0	336.00	HORIZONTAL
599.559118	32.40	-10.6	46.0	13.6	QP	100.0	93.00	HORIZONTAL
768.677355	36.10	-7.2	46.0	9.9	QP	100.0	239.00	HORIZONTAL

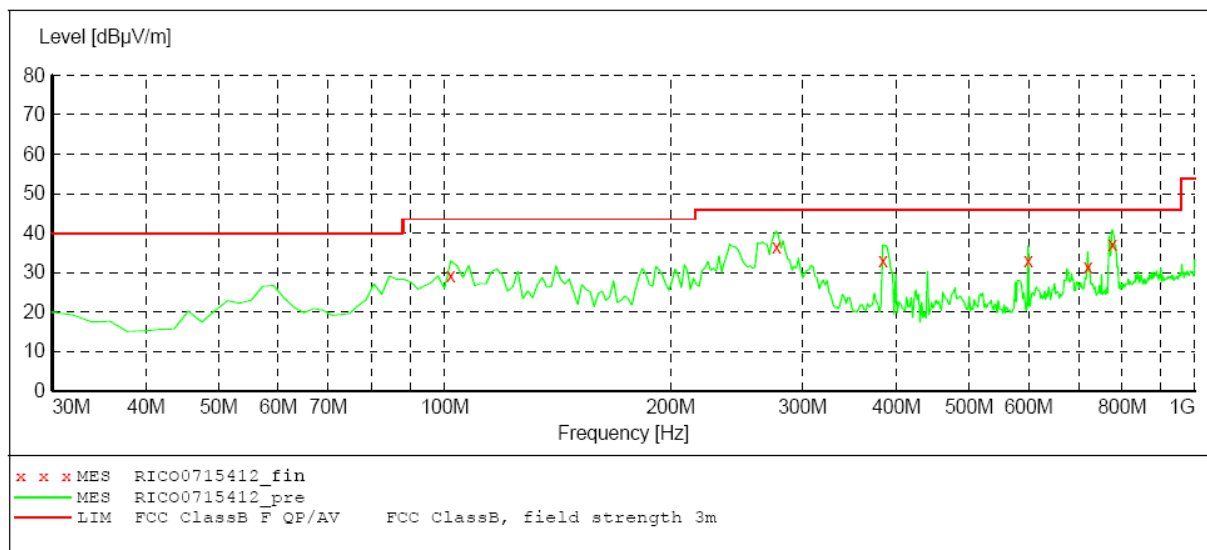
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO., LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: NIC SCAN
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:20:14PM

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



MEASUREMENT RESULT: "RICO0715412_fin"

7/15/2013 9:22PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
101.923848	29.90	-18.4	43.5	13.6	QP	300.0	172.00	HORIZONTAL
276.873747	37.40	-16.3	46.0	8.6	QP	100.0	87.00	HORIZONTAL
383.787575	33.90	-14.1	46.0	12.1	QP	100.0	348.00	HORIZONTAL
599.559118	33.70	-10.6	46.0	12.3	QP	100.0	87.00	HORIZONTAL
720.080160	32.20	-7.2	46.0	13.8	QP	100.0	247.00	HORIZONTAL
776.452906	37.80	-6.8	46.0	8.2	QP	100.0	241.00	HORIZONTAL

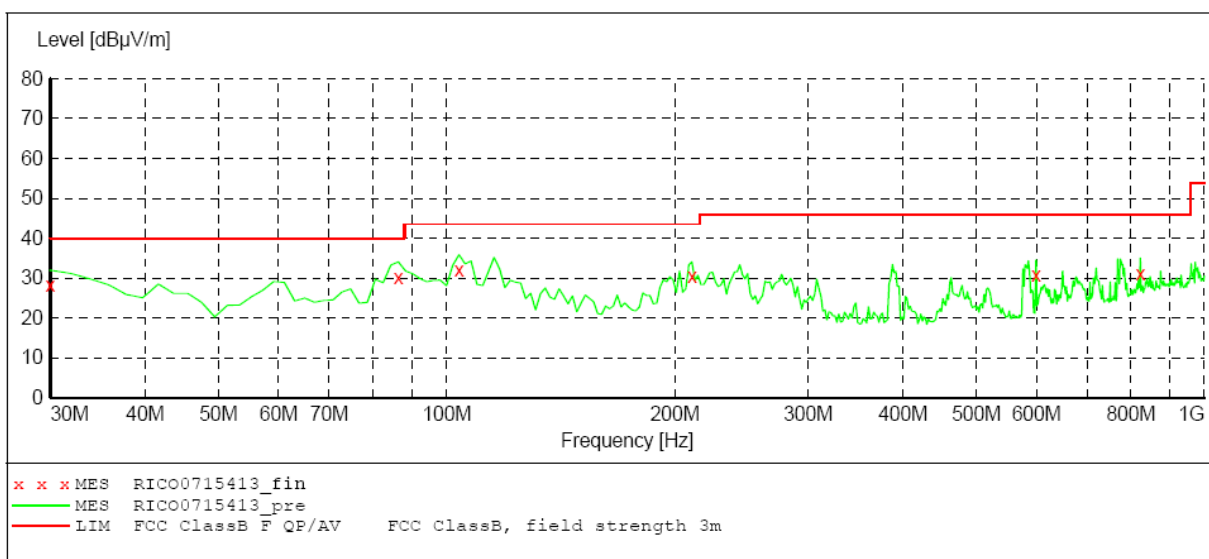
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: NIC SCAN
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:22:32PM

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



MEASUREMENT RESULT: "RICO0715413_fin"

7/15/2013 9:23PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	27.90	-10.0	40.0	12.1	QP	100.0	99.00	VERTICAL
86.372745	30.00	-19.4	40.0	10.0	QP	100.0	122.00	VERTICAL
103.867735	31.80	-18.3	43.5	11.7	QP	100.0	176.00	VERTICAL
210.781563	30.10	-19.2	43.5	13.4	QP	100.0	270.00	VERTICAL
599.559118	30.50	-10.6	46.0	15.5	QP	100.0	299.00	VERTICAL
823.106212	31.00	-5.5	46.0	15.0	QP	100.0	216.00	VERTICAL

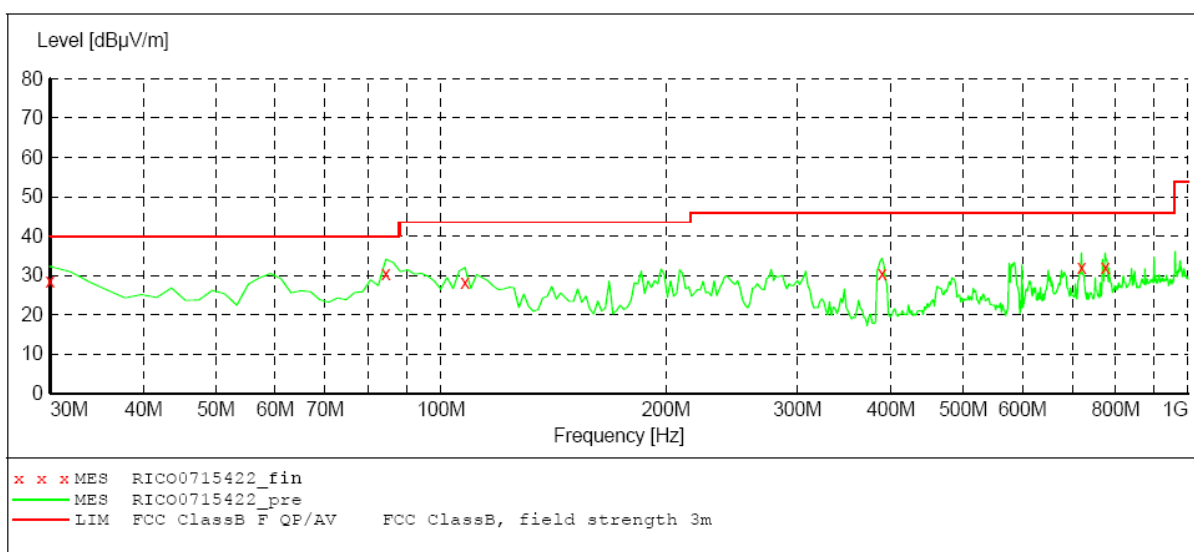
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: SCAN TO USB
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:45:37PM

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



MEASUREMENT RESULT: "RICO0715422_fin"

7/15/2013 9:47PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	30.20	-10.0	40.0	9.8	QP	100.0	71.00	VERTICAL
84.428858	32.10	-19.7	40.0	7.9	QP	100.0	113.00	VERTICAL
107.755511	30.00	-18.2	43.5	13.5	QP	100.0	191.00	VERTICAL
389.619238	32.30	-13.8	46.0	13.7	QP	100.0	268.00	VERTICAL
720.080160	33.70	-7.2	46.0	12.3	QP	100.0	280.00	VERTICAL
774.509018	33.70	-6.9	46.0	12.3	QP	100.0	107.00	VERTICAL

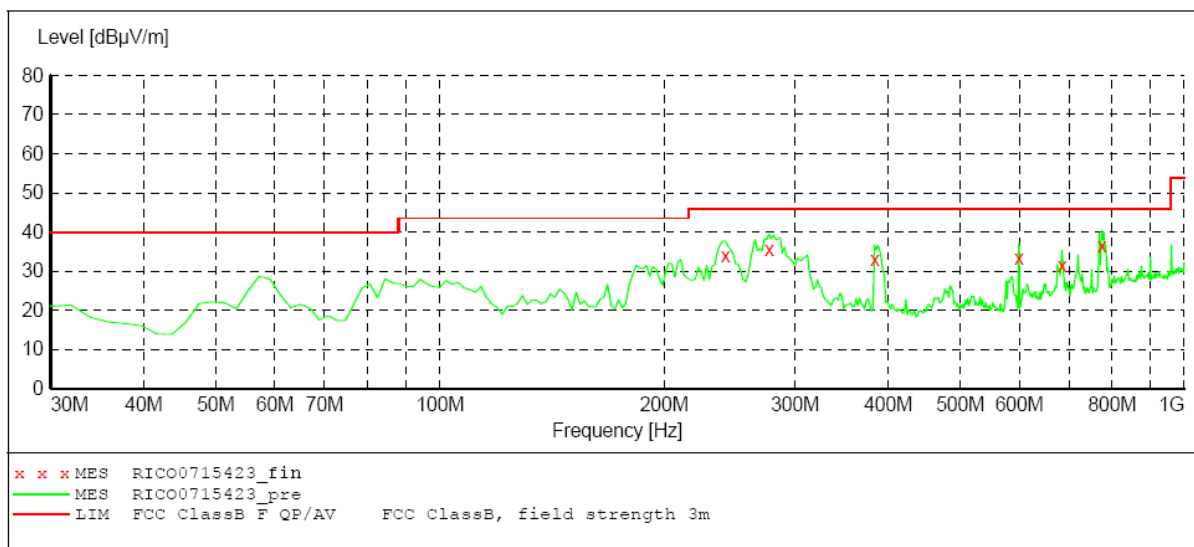
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: SCAN TO USB
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:47:19PM

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



MEASUREMENT RESULT: "RICO0715423_fin"

7/15/2013 9:49PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
241.883768	35.70	-17.2	46.0	10.3	QP	100.0	279.00	HORIZONTAL
276.873747	37.40	-16.3	46.0	8.6	QP	100.0	110.00	HORIZONTAL
383.787575	34.60	-14.1	46.0	11.4	QP	100.0	358.00	HORIZONTAL
599.559118	35.10	-10.6	46.0	10.9	QP	100.0	255.00	HORIZONTAL
685.090180	33.30	-7.6	46.0	12.7	QP	100.0	219.00	HORIZONTAL
774.509018	38.30	-6.9	46.0	7.7	QP	100.0	238.00	HORIZONTAL

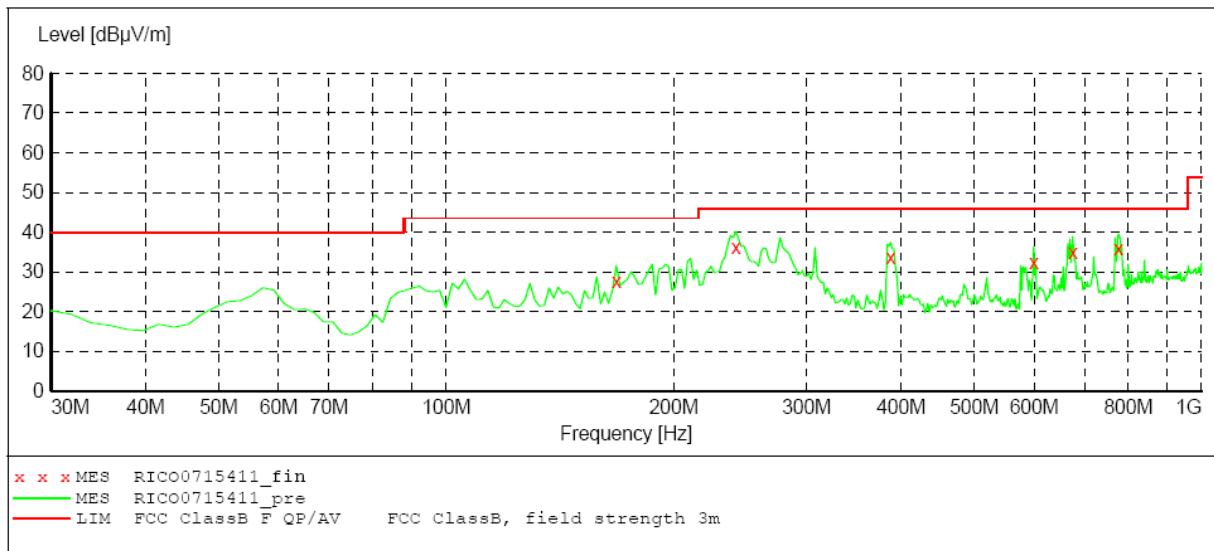
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: WIFI SCAN
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:12:26PM

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



MEASUREMENT RESULT: "RICO0715411_fin"

7/15/2013 9:14PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
168.016032	28.50	-21.8	43.5	15.0	QP	300.0	262.00	HORIZONTAL
241.883768	37.10	-17.2	46.0	8.9	QP	100.0	310.00	HORIZONTAL
387.675351	34.40	-13.9	46.0	11.6	QP	100.0	340.00	HORIZONTAL
599.559118	33.20	-10.6	46.0	12.8	QP	100.0	86.00	HORIZONTAL
675.370741	35.80	-7.5	46.0	10.2	QP	100.0	116.00	HORIZONTAL
776.452906	36.50	-6.8	46.0	9.5	QP	100.0	227.00	HORIZONTAL

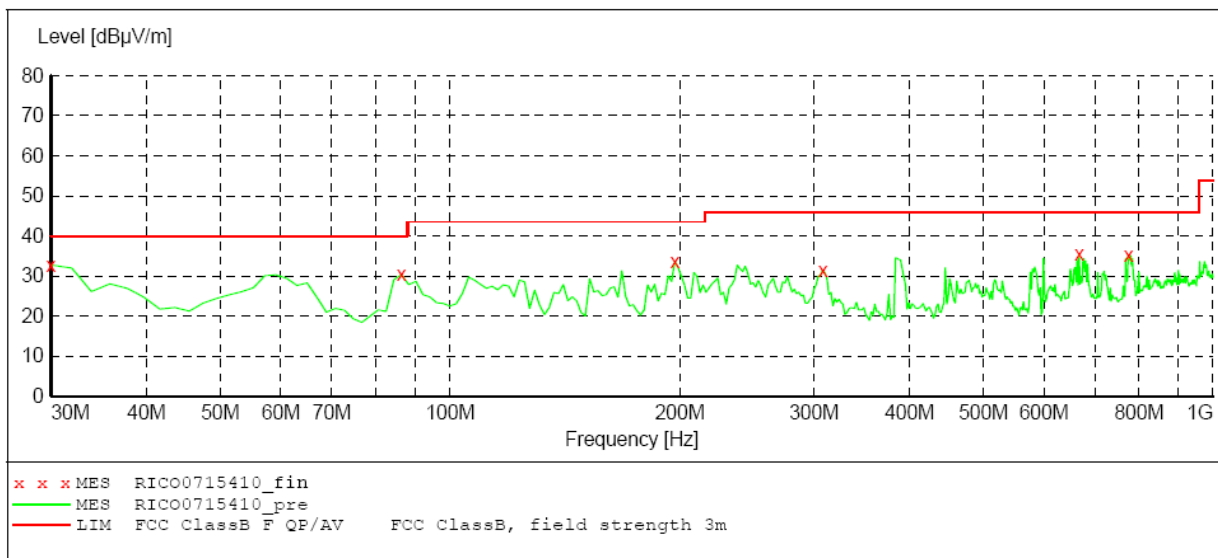
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: WIFI SCAN
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:10:45PM

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

Short Description:		Field Strength(30M-1G)					
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: "RICO0715410_fin"

7/20/2013 2:42PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	32.70	-10.0	40.0	7.3	QP	100.0	263.00	VERTICAL
86.372745	30.30	-19.4	40.0	9.7	QP	100.0	109.00	VERTICAL
197.174349	33.70	-19.9	43.5	9.8	QP	100.0	139.00	VERTICAL
307.975952	31.50	-14.8	46.0	14.5	QP	100.0	228.00	VERTICAL
667.595190	35.50	-7.6	46.0	10.5	QP	100.0	192.00	VERTICAL
774.509018	35.20	-6.9	46.0	10.8	QP	100.0	245.00	VERTICAL

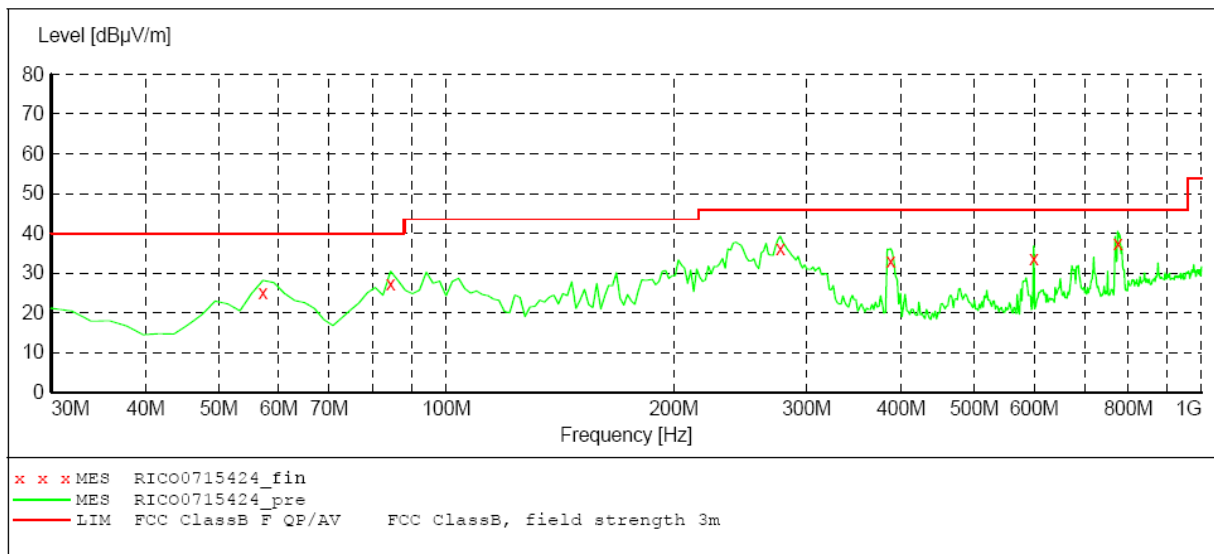
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO., LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: FAX TX
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:51:07PM

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



MEASUREMENT RESULT: "RICO0715424_fin"

7/15/2013 9:53PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
57.214429	26.10	-23.1	40.0	13.9	QP	300.0	3.00	HORIZONTAL
84.428858	28.40	-19.7	40.0	11.6	QP	300.0	191.00	HORIZONTAL
276.873747	37.30	-16.3	46.0	8.7	QP	100.0	56.00	HORIZONTAL
387.675351	34.10	-13.9	46.0	11.9	QP	100.0	20.00	HORIZONTAL
599.559118	34.80	-10.6	46.0	11.2	QP	100.0	85.00	HORIZONTAL
774.509018	38.50	-6.9	46.0	7.5	QP	100.0	242.00	HORIZONTAL

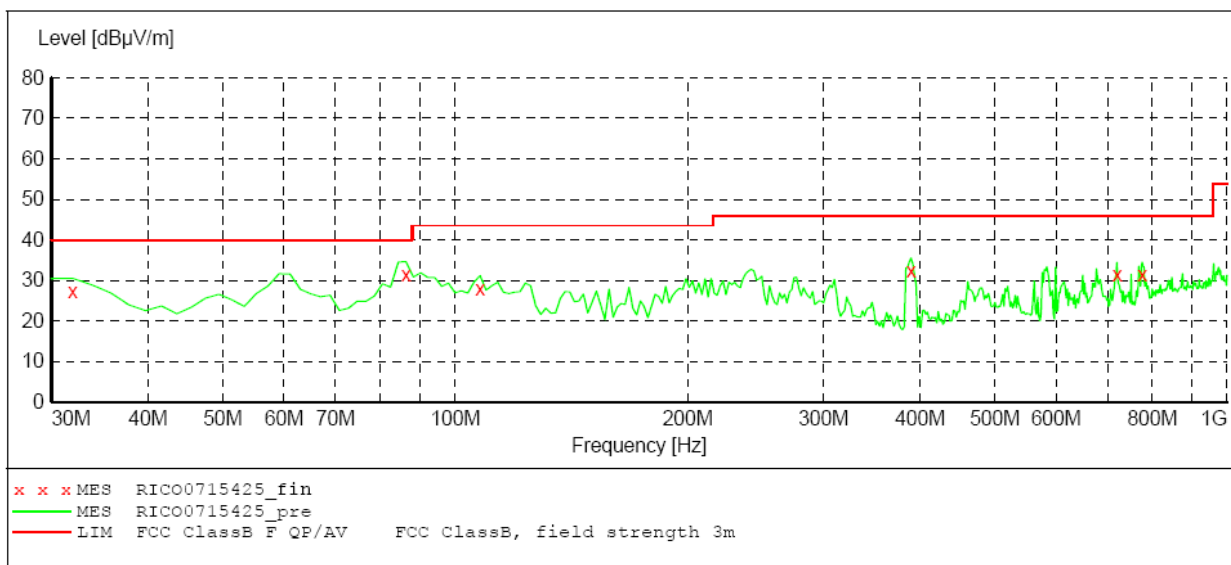
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNw
 Manufacturer: RICOH
 Operating Condition: FAX TX
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:53:22PM

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



MEASUREMENT RESULT: "RICO0715425_fin"

7/15/2013 9:54PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
31.943888	28.50	-11.1	40.0	11.5	QP	100.0	0.00	VERTICAL
86.372745	32.60	-19.4	40.0	7.4	QP	100.0	80.00	VERTICAL
107.755511	29.10	-18.2	43.5	14.4	QP	100.0	205.00	VERTICAL
389.619238	33.50	-13.8	46.0	12.5	QP	100.0	282.00	VERTICAL
720.080160	32.40	-7.2	46.0	13.6	QP	100.0	271.00	VERTICAL
776.452906	32.50	-6.8	46.0	13.5	QP	100.0	169.00	VERTICAL

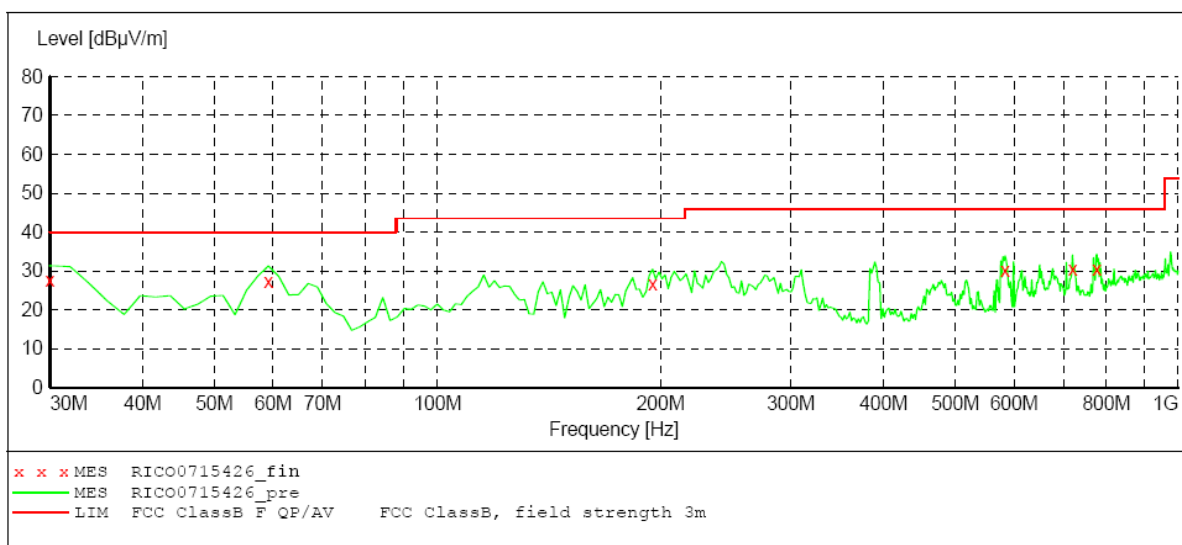
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNw
 Manufacturer: RICOH
 Operating Condition: FAX RX
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:55:08PM

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



MEASUREMENT RESULT: "RICO0715426_fin"

7/15/2013 9:56PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	29.30	-10.0	40.0	10.7	QP	100.0	74.00	VERTICAL
59.158317	29.20	-23.5	40.0	10.8	QP	100.0	306.00	VERTICAL
195.230461	28.40	-20.0	43.5	15.1	QP	100.0	247.00	VERTICAL
584.008016	31.90	-11.0	46.0	14.1	QP	100.0	157.00	VERTICAL
720.080160	32.10	-7.2	46.0	13.9	QP	100.0	276.00	VERTICAL
776.452906	32.30	-6.8	46.0	13.7	QP	100.0	163.00	VERTICAL

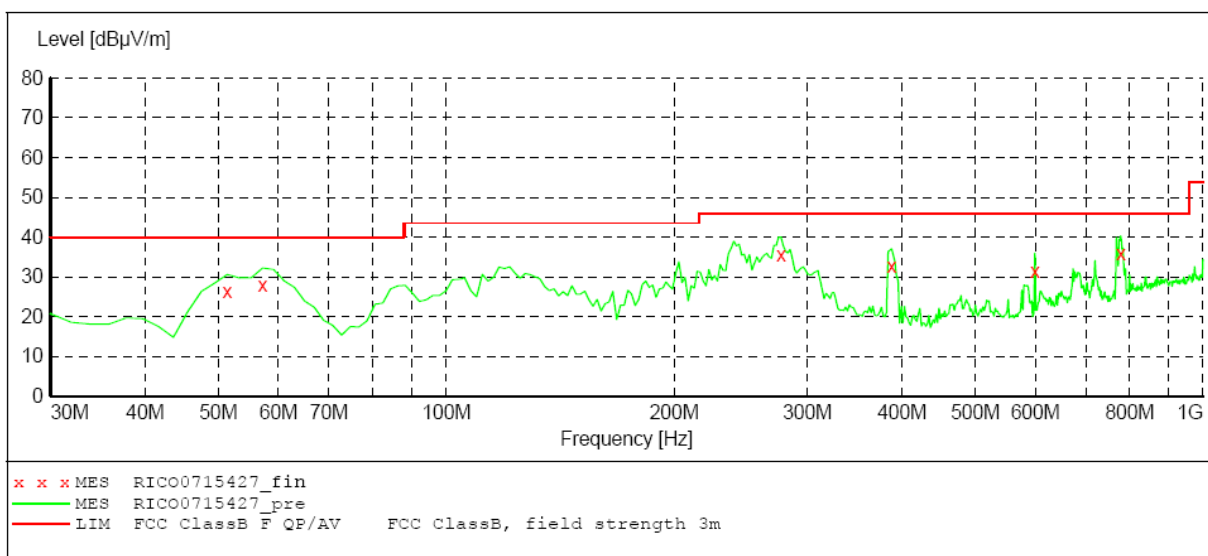
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: FAX RX
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/15/2013 / 9:56:49PM

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



MEASUREMENT RESULT: "RICO0715427_fin"

7/15/2013 9:58PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
51.382766	28.60	-21.4	40.0	11.4	QP	300.0	179.00	HORIZONTAL
57.214429	30.20	-23.1	40.0	9.8	QP	300.0	55.00	HORIZONTAL
276.873747	38.00	-16.3	46.0	8.0	QP	100.0	73.00	HORIZONTAL
387.675351	35.00	-13.9	46.0	11.0	QP	100.0	14.00	HORIZONTAL
599.559118	33.90	-10.6	46.0	12.1	QP	100.0	92.00	HORIZONTAL
778.396794	38.30	-6.7	46.0	7.7	QP	100.0	239.00	HORIZONTAL

Above 1G

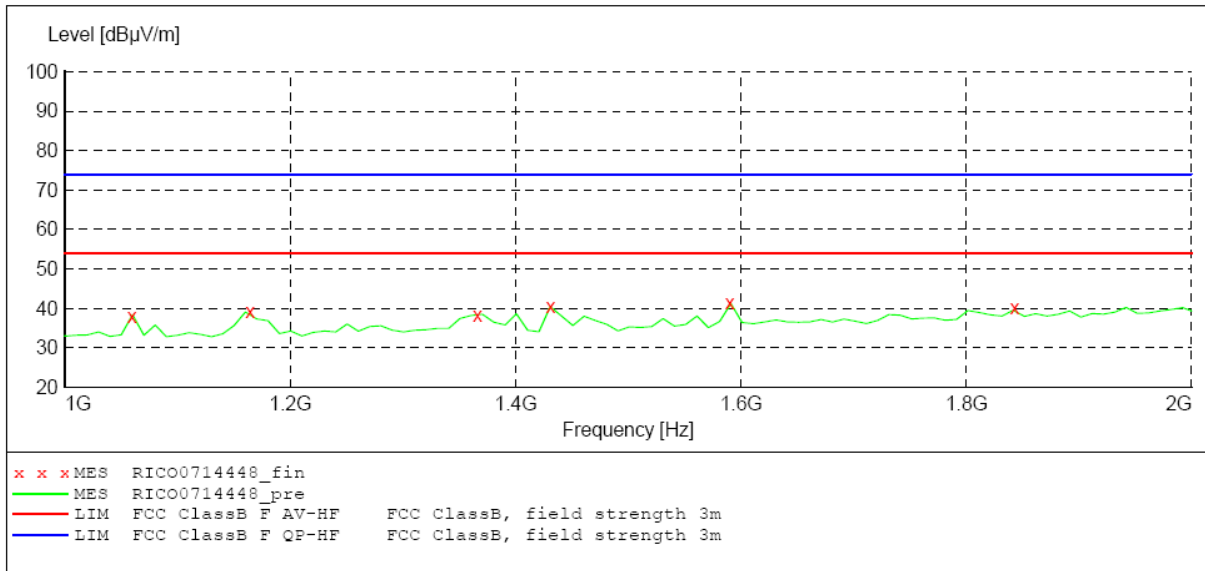
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: STANDBY
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 7:41:35PM

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: "RICO0714448_fin"

8/13/2013 11:31AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1079.500000	38.60	-2.4	54.0	15.4	PK	100.0	163.00	VERTICAL
1162.300000	39.50	3.1	54.0	14.5	PK	100.0	252.00	VERTICAL
1366.000000	38.70	3.1	54.0	15.3	PK	100.0	251.00	VERTICAL
1432.500000	40.10	6.4	54.0	13.9	PK	100.0	83.00	VERTICAL
1589.500000	40.80	12.2	54.0	13.2	PK	100.0	220.00	VERTICAL
1846.200000	39.70	12.9	54.0	14.3	PK	100.0	263.00	VERTICAL

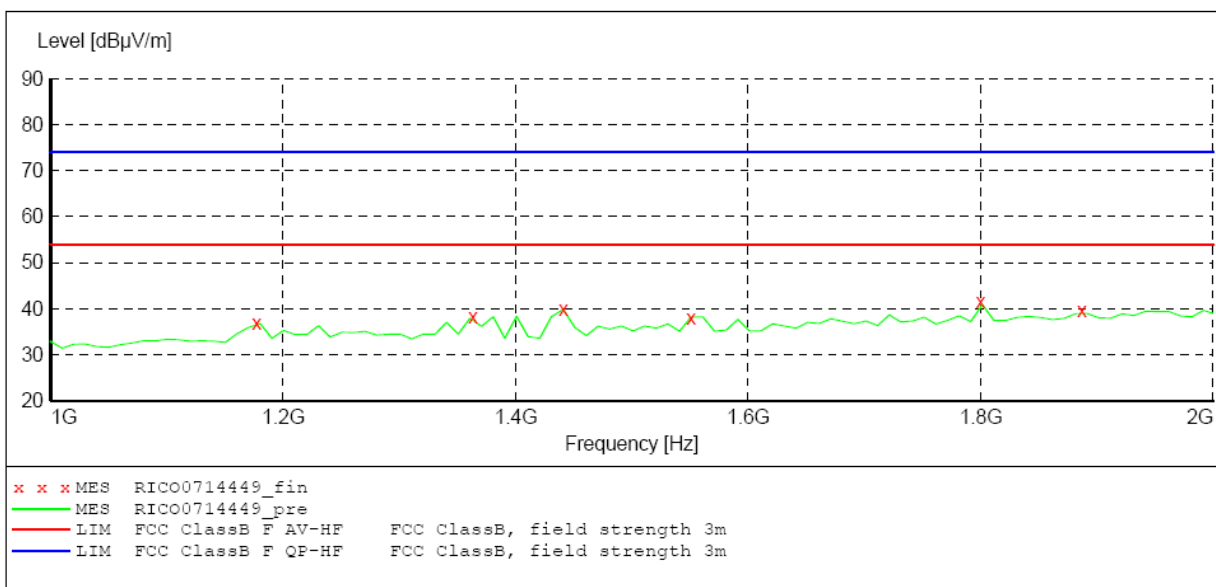
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNw
 Manufacturer: RICOH
 Operating Condition: STANDBY
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 7:50:47PM

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: "RICO0714449_fin"

8/13/2013 11:34AM

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
1178.300000	37.80	-3.3	54.0	16.2	PK	100.0	268.00	HORIZONTAL
1368.000000	38.60	-1.0	54.0	15.4	PK	100.0	188.00	HORIZONTAL
1435.000000	39.80	1.2	54.0	14.2	PK	100.0	89.00	HORIZONTAL
1555.500000	38.10	3.3	54.0	15.9	PK	100.0	228.00	HORIZONTAL
1800.000000	40.50	5.0	54.0	13.5	PK	100.0	89.00	HORIZONTAL
1891.000000	39.60	9.9	54.0	14.4	PK	100.0	275.00	HORIZONTAL

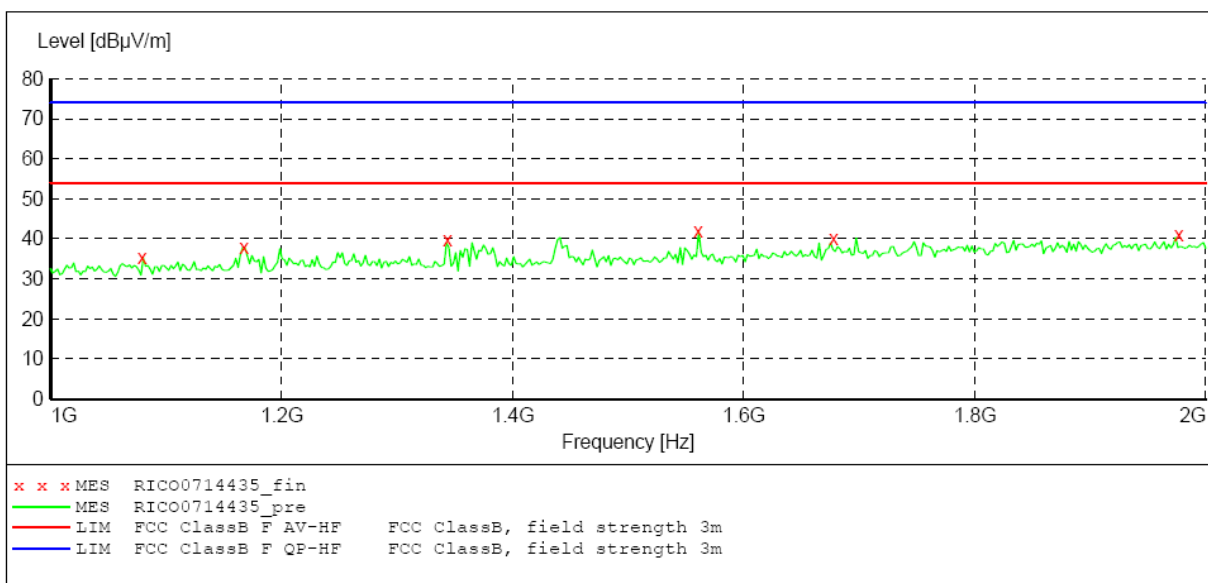
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: COPY
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 5:30:18PM

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

Short Description:		Field Strength(30M-1G)				
Start Frequency	Stop Frequency	Step Width	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: "RICO0714435_fin"

7/14/2013 5:36PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1088.000000	35.10	-3.6	54.0	18.9	PK	100.0	172.00	HORIZONTAL
1174.000000	38.80	-3.5	54.0	15.2	PK	100.0	219.00	HORIZONTAL
1343.500000	39.20	-3.3	54.0	14.8	PK	100.0	199.00	HORIZONTAL
1560.500000	40.20	-2.7	54.0	13.8	PK	100.0	198.00	HORIZONTAL
1680.000000	39.30	-1.8	54.0	14.7	PK	100.0	197.00	HORIZONTAL
1985.500000	40.10	0.2	54.0	13.9	PK	100.0	33.00	HORIZONTAL

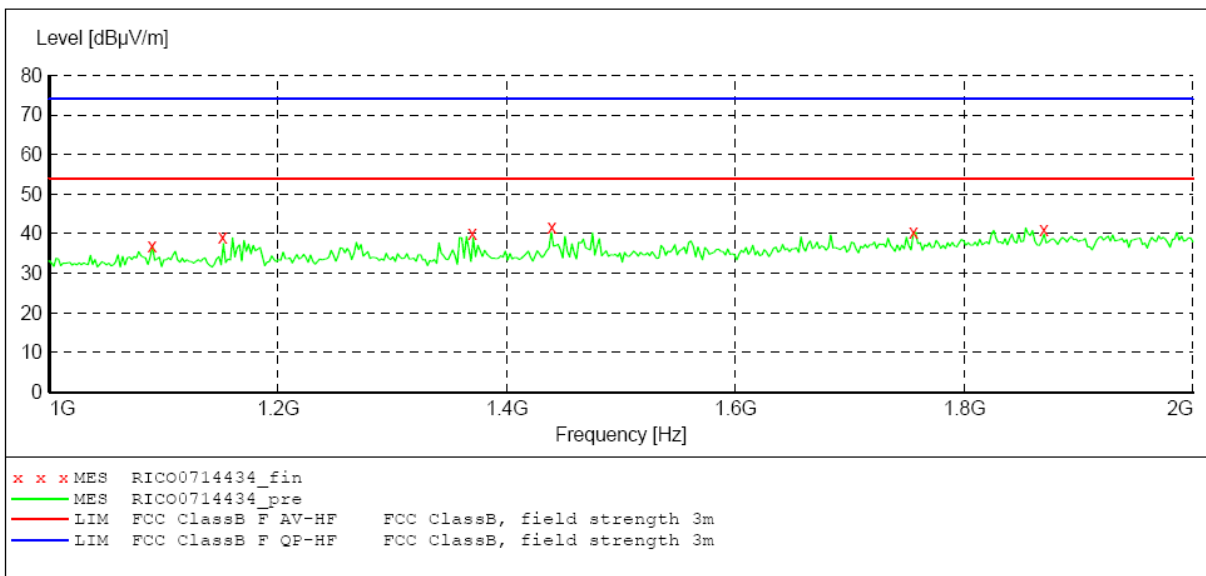
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: COPY
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 5:22:33PM

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: "RICO0714434_fin"

7/14/2013 5:28PM

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
1085.500000	37.10	-3.6	54.0	16.9	PK	100.0	28.00	VERTICAL
1151.500000	38.80	-3.6	54.0	15.2	PK	100.0	93.00	VERTICAL
1370.000000	39.60	-3.3	54.0	14.4	PK	100.0	129.00	VERTICAL
1439.500000	40.80	-3.2	54.0	13.2	PK	100.0	276.00	VERTICAL
1755.500000	39.90	-1.3	54.0	14.1	PK	100.0	159.00	VERTICAL
1869.500000	40.10	-0.6	54.0	13.9	PK	100.0	125.00	VERTICAL

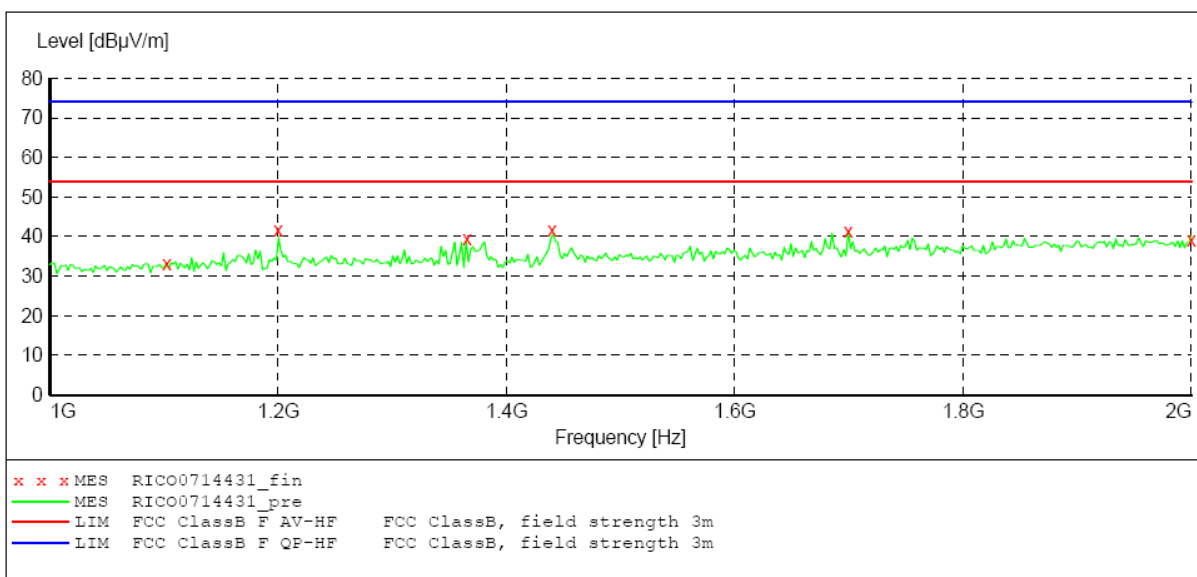
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNw
 Manufacturer: RICOH
 Operating Condition: USB Print
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 4:27:41PM

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: "RICO0714431_fin"

7/14/2013 4:33PM

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
1102.500000	32.60	-3.6	54.0	21.4	PK	100.0	75.00	HORIZONTAL
1200.000000	41.10	-3.5	54.0	12.9	PK	100.0	211.00	HORIZONTAL
1365.500000	39.50	-3.3	54.0	14.5	PK	100.0	271.00	HORIZONTAL
1440.000000	40.60	-3.2	54.0	13.4	PK	100.0	228.00	HORIZONTAL
1699.500000	40.40	-1.7	54.0	13.6	PK	100.0	288.00	HORIZONTAL
2000.000000	38.90	0.3	54.0	15.1	PK	100.0	300.00	HORIZONTAL

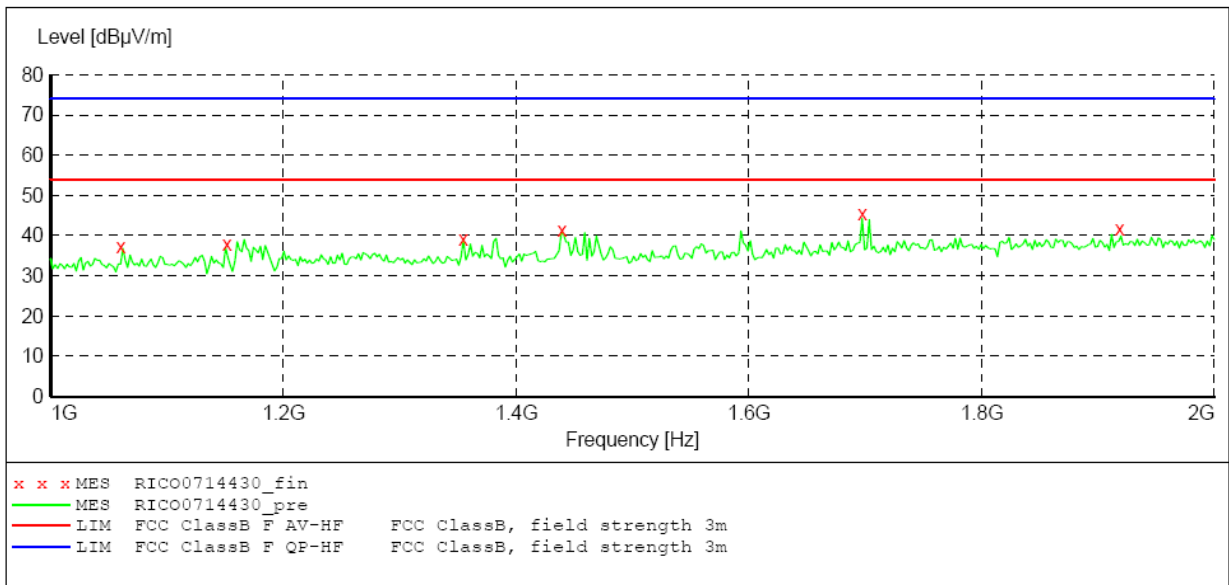
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNw
 Manufacturer: RICOH
 Operating Condition: USB Print
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 4:18:19PM

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: "RICO0714430_fin"

7/14/2013 4:26PM

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
1089.500000	37.80	-3.7	54.0	16.2	PK	100.0	57.00	VERTICAL
1151.500000	38.60	-3.6	54.0	15.8	PK	100.0	0.00	VERTICAL
1365.500000	39.00	-3.3	54.0	15.0	PK	100.0	128.00	VERTICAL
1439.500000	40.30	-3.2	54.0	13.7	PK	100.0	273.00	VERTICAL
1697.500000	44.50	-1.7	54.0	9.5	PK	100.0	0.00	VERTICAL
1918.500000	40.10	-0.3	54.0	13.9	PK	100.0	141.00	VERTICAL

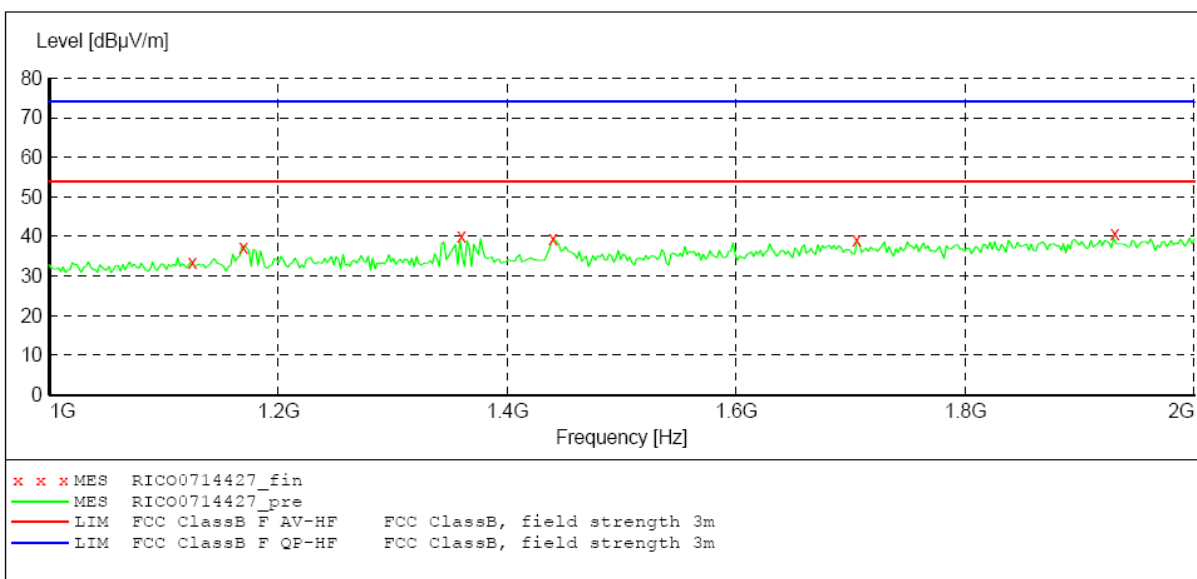
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: NIC Print
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 3:46:53PM

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

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



MEASUREMENT RESULT: "RICO0714427_fin"

7/14/2013 3:52PM

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
1125.000000	32.60	-3.6	54.0	21.4	PK	100.0	135.00	HORIZONTAL
1169.500000	38.30	-3.5	54.0	15.7	PK	100.0	228.00	HORIZONTAL
1360.000000	39.60	-3.3	54.0	14.4	PK	100.0	202.00	HORIZONTAL
1440.000000	39.20	-3.2	54.0	14.8	PK	100.0	285.00	HORIZONTAL
1698.500000	38.80	-1.7	54.0	15.2	PK	100.0	261.00	HORIZONTAL
1935.000000	40.00	-0.2	54.0	14.0	PK	100.0	334.00	HORIZONTAL

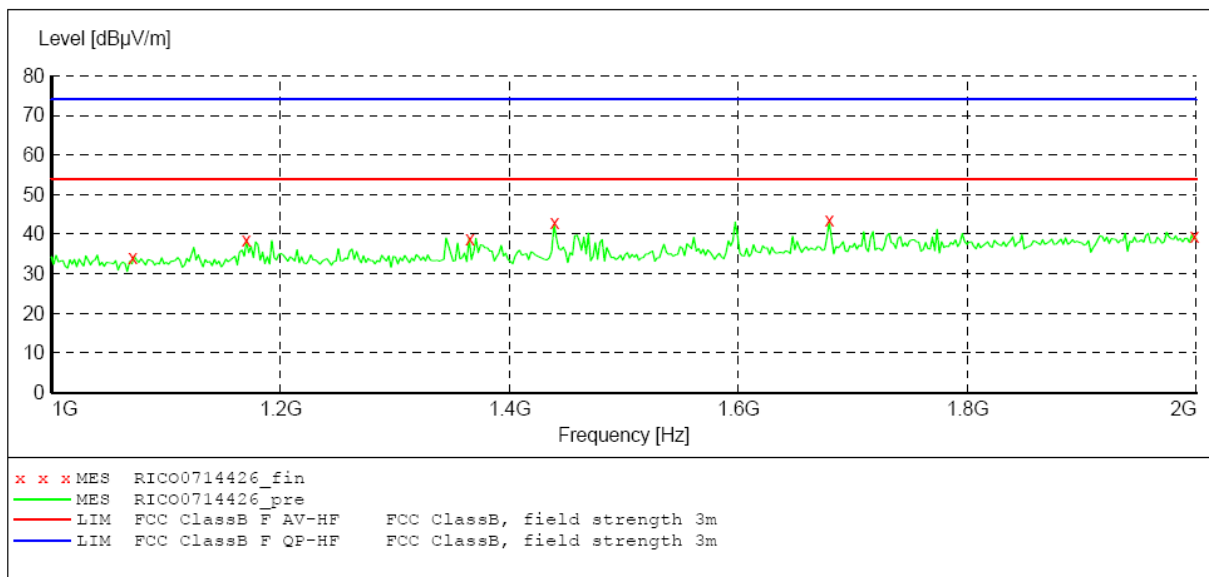
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: NIC Print
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 3:38:37PM

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: "RICO0714426_fin"

7/14/2013 3:45PM

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
1062.000000	34.20	-3.6	54.0	19.8	PK	100.0	1.00	VERTICAL
1174.500000	38.90	-3.5	54.0	15.1	PK	100.0	150.00	VERTICAL
1365.500000	39.20	-3.3	54.0	14.8	PK	100.0	125.00	VERTICAL
1439.500000	42.30	-3.2	54.0	11.7	PK	100.0	274.00	VERTICAL
1683.500000	43.10	-1.6	54.0	10.9	PK	100.0	113.00	VERTICAL
1998.500000	39.80	0.2	54.0	14.2	PK	100.0	170.00	VERTICAL

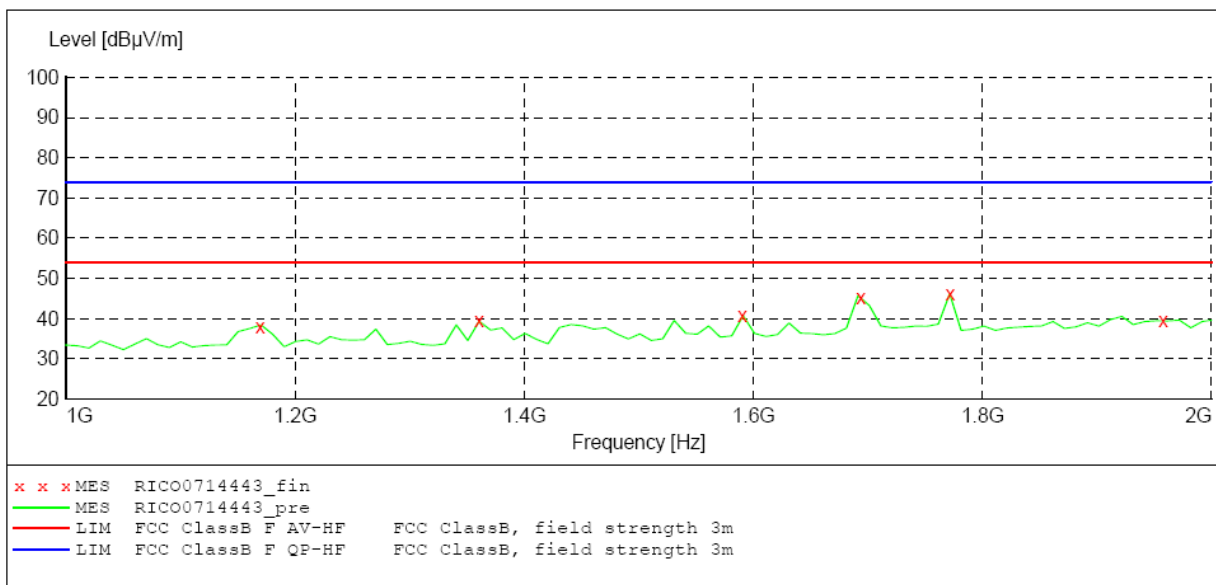
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: WIFI Print
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 6:51:07PM

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: "RICO0714443_fin"

8/13/2013 10:05AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1171.500000	38.20	-3.6	54.0	15.8	PK	100.0	0.00	VERTICAL
1365.000000	39.60	-3.0	54.0	14.4	PK	100.0	59.00	VERTICAL
1597.000000	40.20	-2.4	54.0	13.8	PK	100.0	187.00	VERTICAL
1700.500000	46.40	-1.7	54.0	7.6	PK	100.0	356.00	VERTICAL
1763.000000	47.30	-1.2	54.0	6.7	PK	100.0	161.00	VERTICAL
1958.000000	39.90	-0.2	54.0	14.1	PK	100.0	68.00	VERTICAL

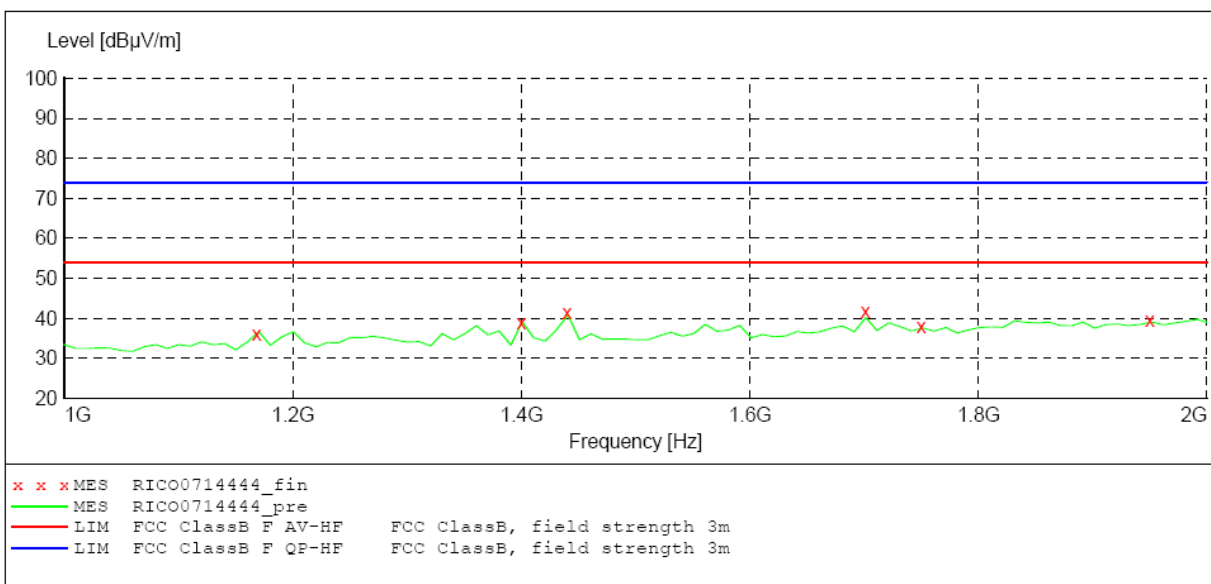
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNw
 Manufacturer: RICOH
 Operating Condition: WIFI Print
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 7:02:48PM

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: "RICO0714444_fin"

8/13/2013 10:13AM

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
1168.000000	37.20	-3.5	54.0	16.8	PK	100.0	85.00	HORIZONTAL
1400.000000	39.80	-3.2	54.0	14.2	PK	100.0	143.00	HORIZONTAL
1440.000000	40.30	-3.2	54.0	13.7	PK	100.0	263.00	HORIZONTAL
1720.000000	40.10	-1.7	54.0	13.9	PK	100.0	113.00	HORIZONTAL
1750.000000	38.30	-1.5	54.0	15.7	PK	100.0	164.00	HORIZONTAL
1950.000000	39.20	-0.2	54.0	14.8	PK	100.0	116.00	HORIZONTAL

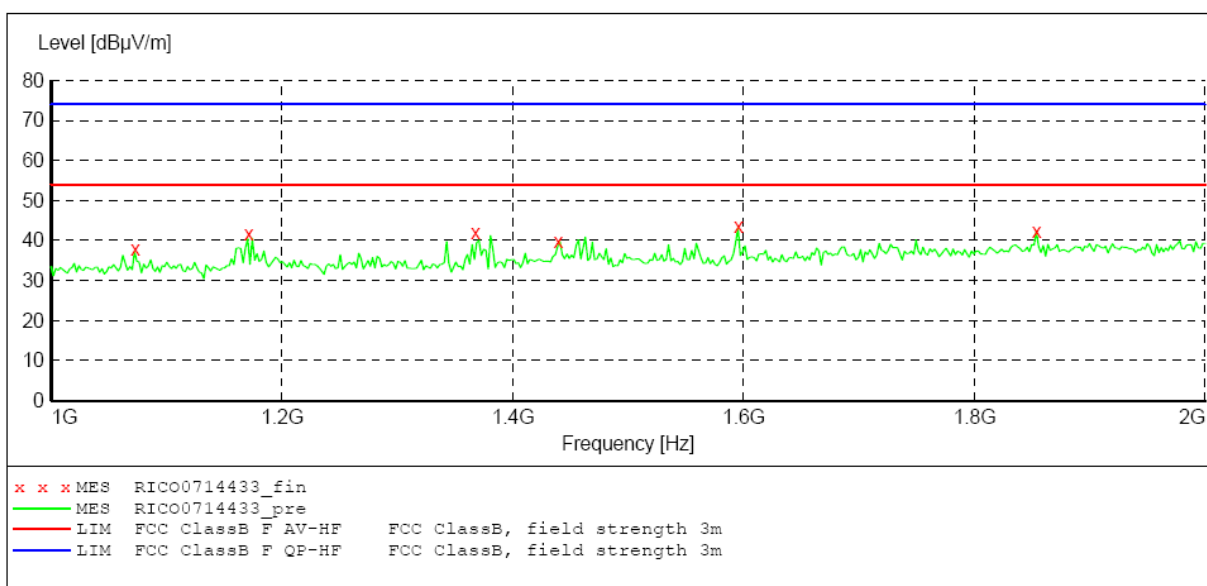
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNw
 Manufacturer: RICOH
 Operating Condition: USB SCAN
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 4:44:34PM

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: "RICO0714433_fin"

7/14/2013 4:51PM

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
1081.000000	38.20	-3.6	54.0	15.8	PK	100.0	75.00	VERTICAL
1181.500000	41.50	-3.6	54.0	12.5	PK	100.0	1.00	VERTICAL
1365.500000	40.80	-3.3	54.0	13.2	PK	100.0	130.00	VERTICAL
1439.500000	38.90	-3.2	54.0	15.1	PK	100.0	278.00	VERTICAL
1595.500000	42.60	-2.4	54.0	11.4	PK	100.0	44.00	VERTICAL
1843.000000	41.30	-0.7	54.0	12.7	PK	100.0	230.00	VERTICAL

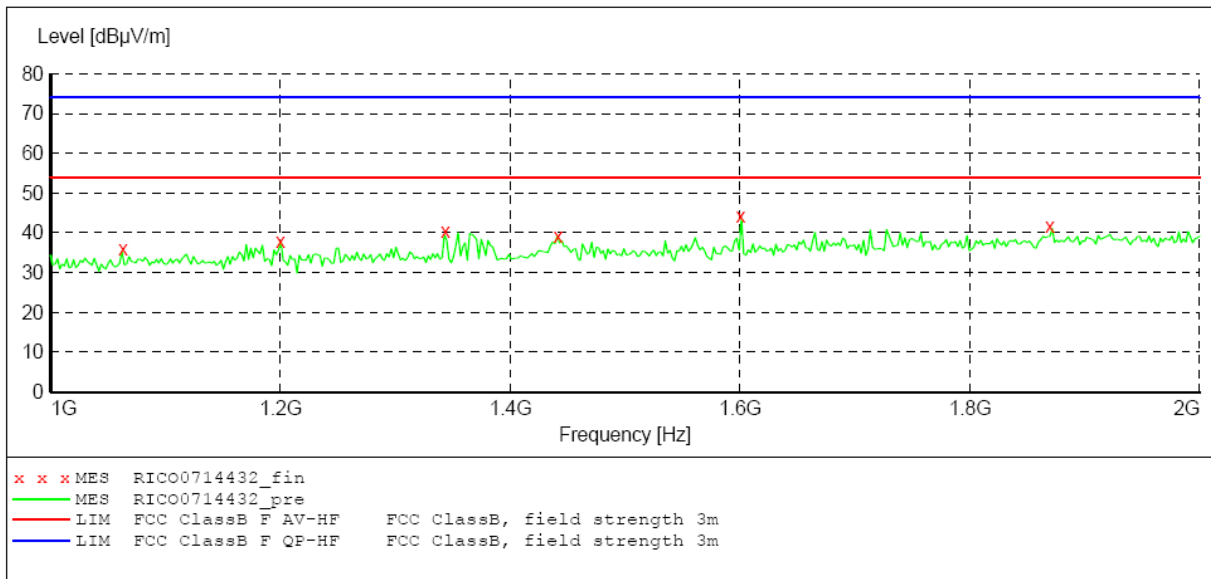
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO., LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: USB SCAN
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 4:37:21PM

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: "RICO0714432_fin"

7/14/2013 4:43PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1063.000000	36.60	-3.6	54.0	17.4	PK	100.0	99.00	HORIZONTAL
1200.000000	37.80	-3.5	54.0	16.2	PK	100.0	211.00	HORIZONTAL
1343.500000	40.00	-3.3	54.0	14.0	PK	100.0	214.00	HORIZONTAL
1439.500000	39.30	-3.2	54.0	14.7	PK	100.0	232.00	HORIZONTAL
1598.500000	44.20	-2.4	54.0	9.8	PK	100.0	89.00	HORIZONTAL
1871.000000	31.30	-0.7	54.0	22.7	PK	100.0	154.00	HORIZONTAL

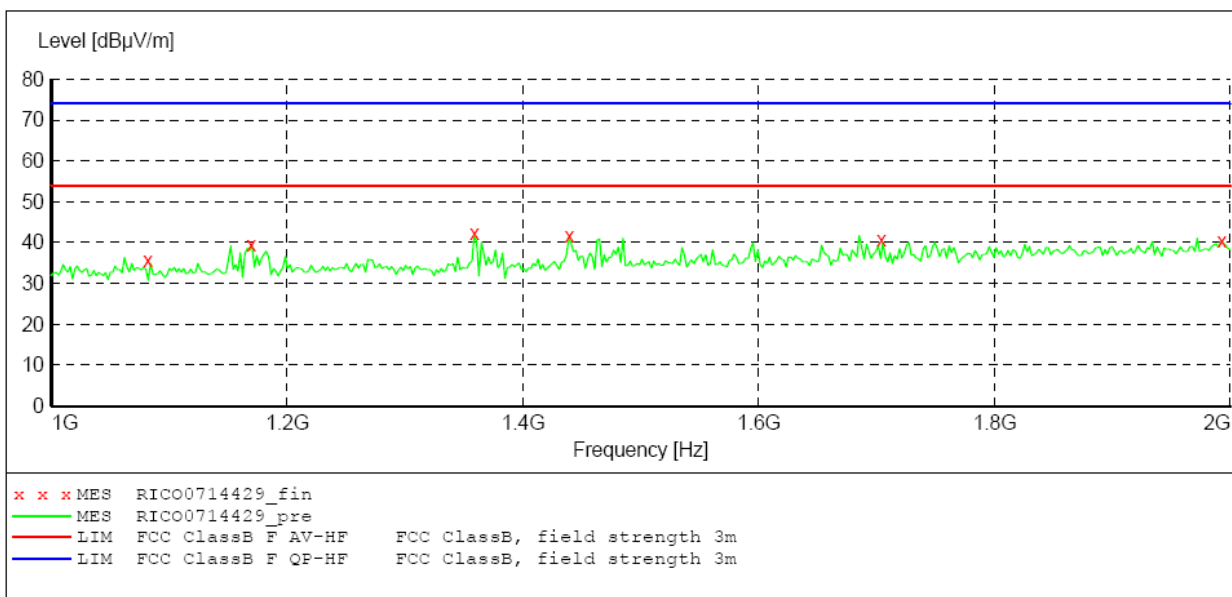
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNw
 Manufacturer: RICOH
 Operating Condition: NIC SCAN
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60HZ
 Comment:
 Start of Test: 7/14/2013 / 4:07:35PM

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: "RICO0714429_fin"

7/14/2013 4:14PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1082.000000	35.30	-3.6	54.0	18.7	PK	100.0	51.00	VERTICAL
1169.500000	39.00	-3.5	54.0	15.0	PK	100.0	0.00	VERTICAL
1365.500000	41.90	-3.3	54.0	12.1	PK	100.0	129.00	VERTICAL
1439.500000	40.60	-3.2	54.0	13.4	PK	100.0	269.00	VERTICAL
1704.000000	40.10	-1.6	54.0	13.9	PK	100.0	0.00	VERTICAL
1993.000000	39.90	0.2	54.0	14.1	PK	100.0	49.00	VERTICAL

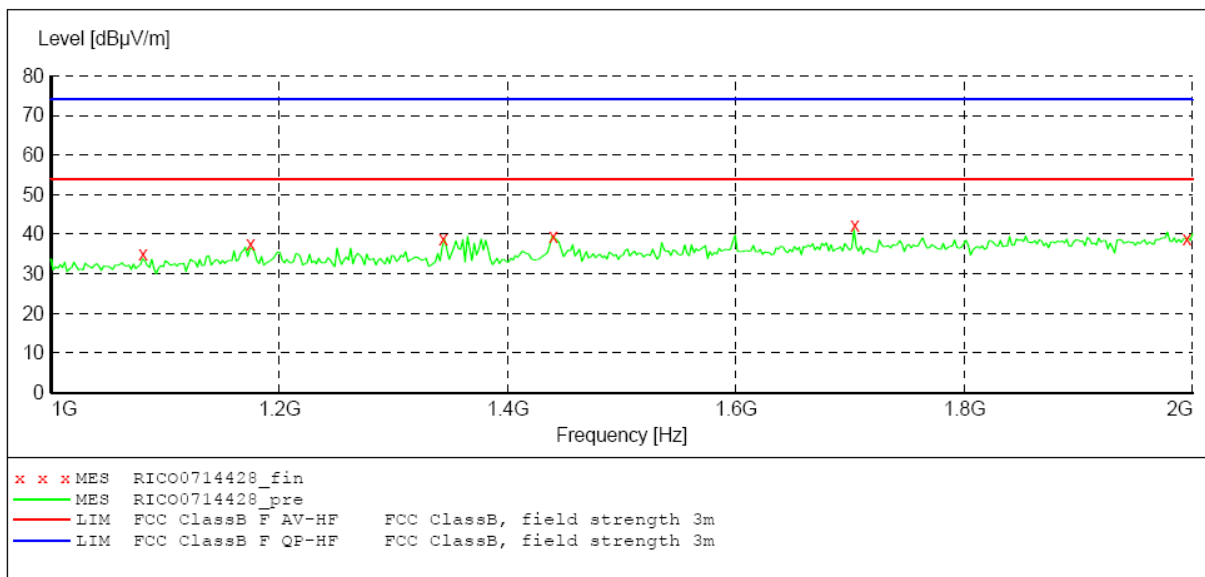
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: NIC SCAN
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 3:59:34PM

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: "RICO0714428_fin"

7/14/2013 4:06PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1080.000000	33.90	-3.6	54.0	20.1	PK	100.0	297.00	HORIZONTAL
1184.500000	38.20	-3.5	54.0	15.8	PK	100.0	232.00	HORIZONTAL
1343.500000	39.20	-3.3	54.0	14.8	PK	100.0	275.00	HORIZONTAL
1440.000000	39.80	-3.2	54.0	14.2	PK	100.0	229.00	HORIZONTAL
1697.500000	40.90	-1.7	54.0	13.2	PK	100.0	95.00	HORIZONTAL
1995.000000	39.50	0.2	54.0	14.5	PK	100.0	138.00	HORIZONTAL

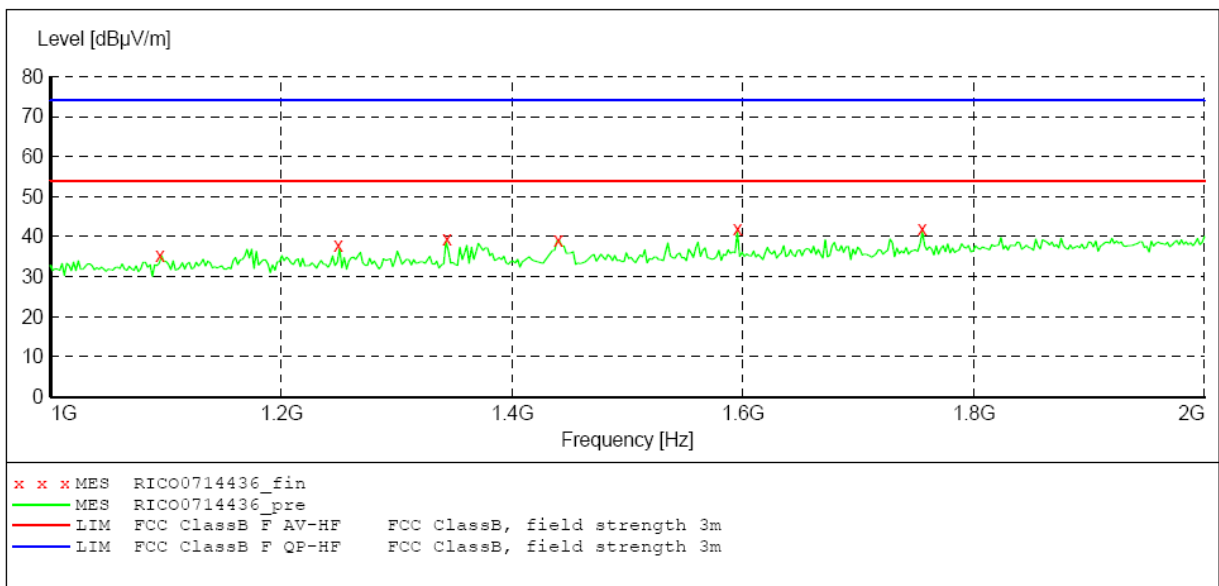
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNw
 Manufacturer: RICOH
 Operating Condition: SCAN TO USB
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 5:38:00PM

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: "RICO0714436_fin"

7/14/2013 5:45PM

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
1092.500000	35.00	-3.6	54.0	19.0	PK	100.0	171.00	HORIZONTAL
1247.000000	38.20	-3.5	54.0	15.8	PK	100.0	127.00	HORIZONTAL
1343.500000	39.60	-3.3	54.0	14.4	PK	100.0	191.00	HORIZONTAL
1440.000000	39.50	-3.2	54.0	14.5	PK	100.0	34.00	HORIZONTAL
1593.000000	41.20	-2.4	54.0	12.8	PK	100.0	134.00	HORIZONTAL
1762.000000	40.80	-1.3	54.0	13.2	PK	100.0	125.00	HORIZONTAL

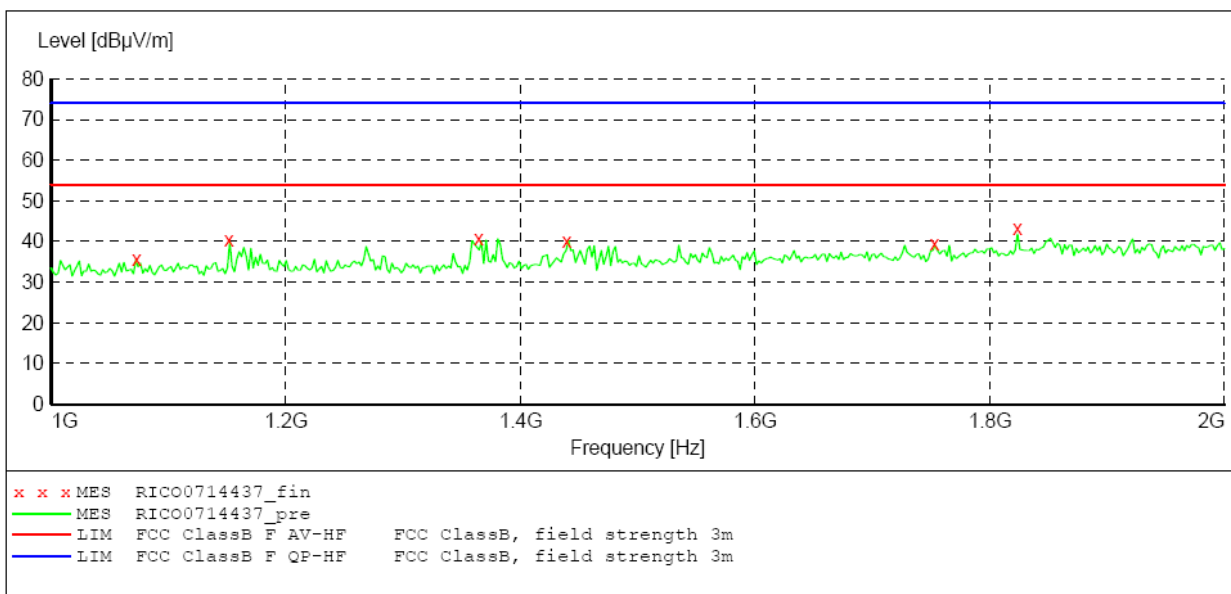
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: SCAN TO USB
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 5:46:00PM

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: "RICO0714437_fin"

7/14/2013 5:54PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1073.000000	36.20	-3.6	54.0	17.8	PK	100.0	356.00	VERTICAL
1151.500000	40.10	-3.6	54.0	13.9	PK	100.0	0.00	VERTICAL
1364.500000	40.00	-3.3	54.0	14.0	PK	100.0	130.00	VERTICAL
1439.500000	39.70	-3.2	54.0	14.3	PK	100.0	266.00	VERTICAL
1748.500000	38.80	-1.3	54.0	15.2	PK	100.0	173.00	VERTICAL
1823.500000	43.10	-0.8	54.0	10.9	PK	100.0	0.00	VERTICAL

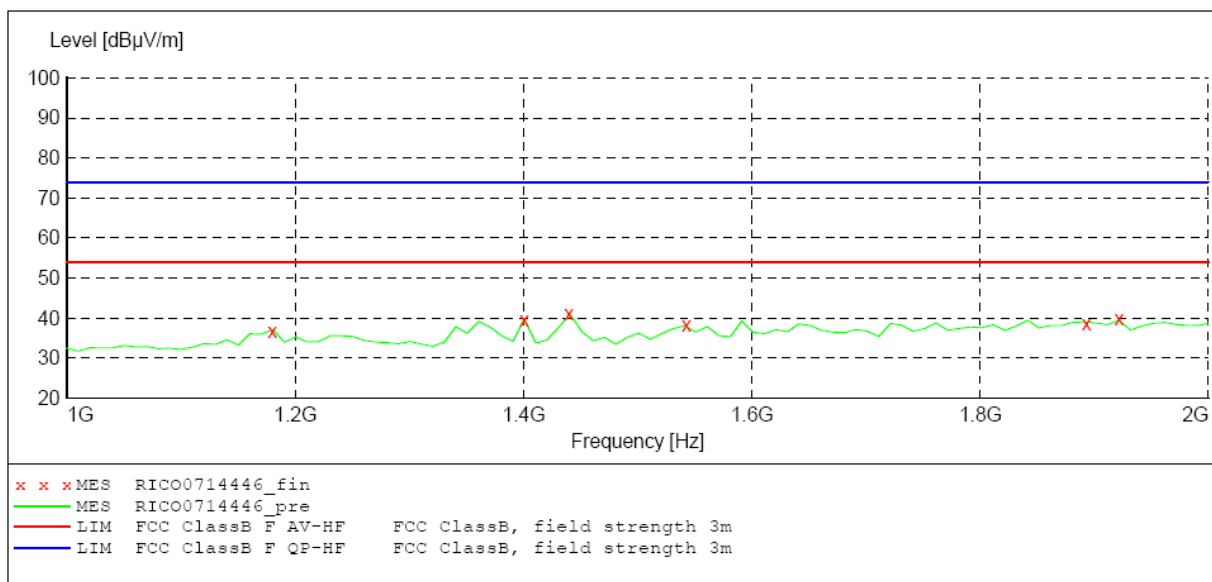
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RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: WIFI SCAN
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 7:25:31PM

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: "RICO0714446_fin"

8/13/2013 11:39AM

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
1181.000000	37.90	1.3	54.0	16.1	PK	100.0	40.00	HORIZONTAL
1407.500000	39.30	3.0	54.0	14.7	PK	100.0	175.00	HORIZONTAL
1444.000000	40.30	3.3	54.0	13.7	PK	100.0	132.00	HORIZONTAL
1547.000000	38.50	3.8	54.0	15.5	PK	100.0	129.00	HORIZONTAL
1893.000000	38.40	8.4	54.0	15.6	PK	100.0	238.00	HORIZONTAL
1927.000000	39.90	12.2	54.0	14.1	PK	100.0	302.00	HORIZONTAL

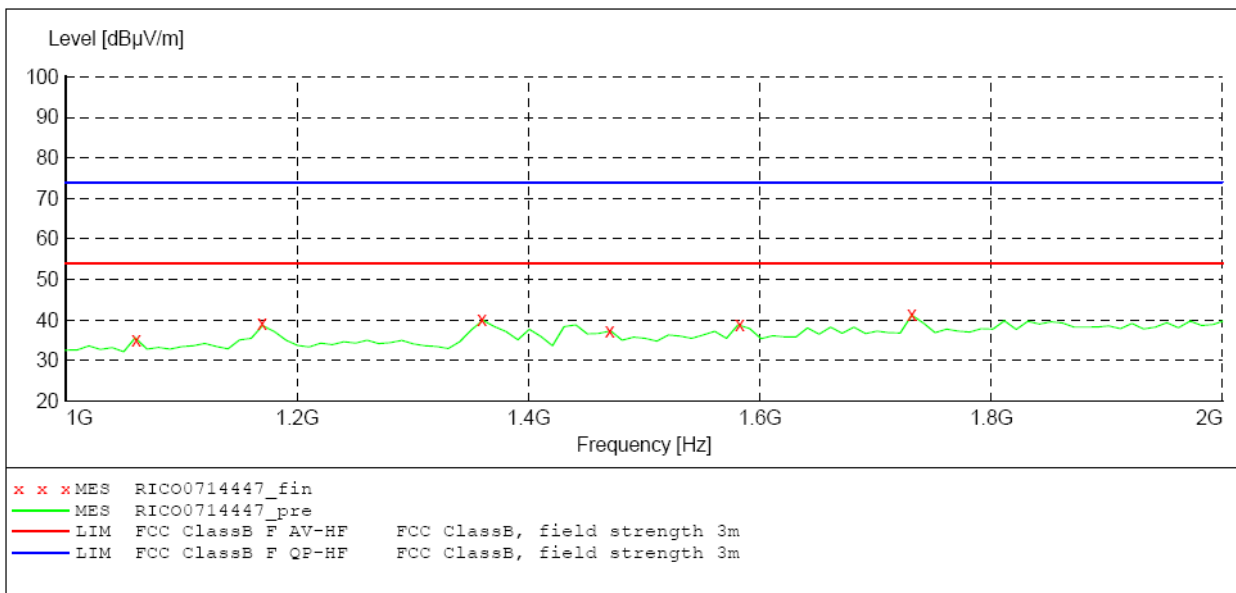
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNw
 Manufacturer: RICOH
 Operating Condition: WIFI SCAN
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 7:32:52PM

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: "RICO0714447_fin"

8/13/2013 11:27AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1068.000000	34.90	-3.5	54.0	19.1	PK	100.0	16.00	VERTICAL
1186.000000	38.80	-1.4	54.0	15.2	PK	100.0	69.00	VERTICAL
1363.000000	39.90	2.1	54.0	14.1	PK	100.0	268.00	VERTICAL
1479.500000	37.60	3.6	54.0	16.4	PK	100.0	218.00	VERTICAL
1593.500000	39.20	7.8	54.0	14.8	PK	100.0	232.00	VERTICAL
1738.500000	40.30	9.7	54.0	13.7	PK	100.0	297.00	VERTICAL

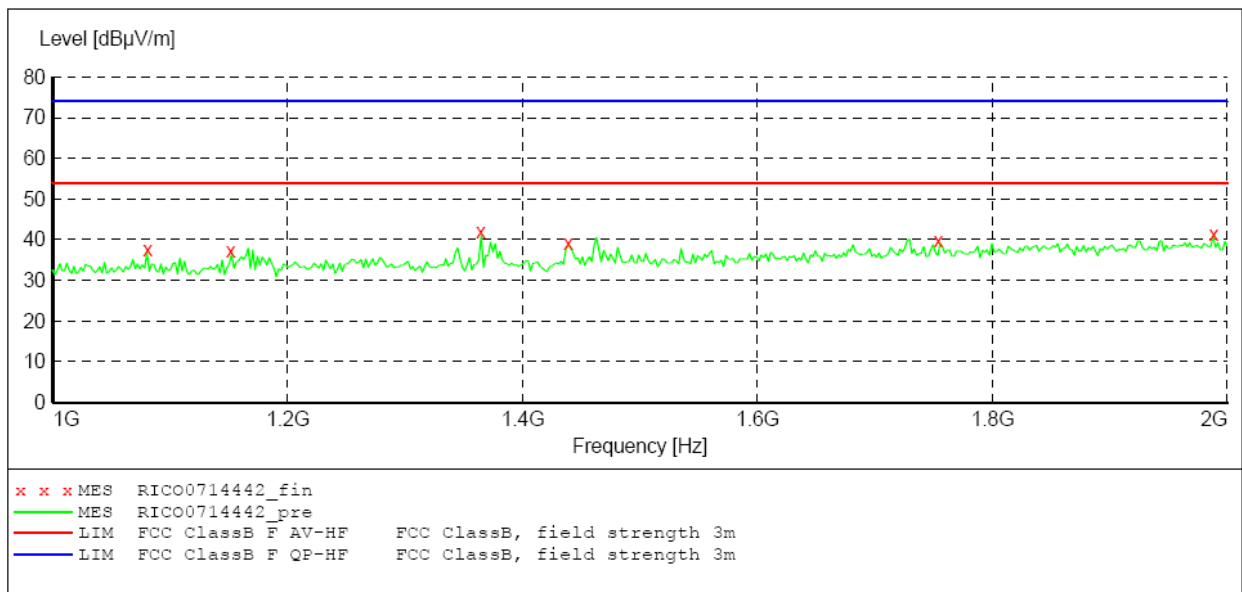
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RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: FAX TX
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 6:30:07PM

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

Short Description:		Field Strength(30M-1G)					
Start Frequency	Stop Frequency	Step Width	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: "RICO0714442_fin"

7/14/2013 6:37PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1081.000000	38.20	-3.6	54.0	15.8	PK	100.0	213.00	VERTICAL
1151.500000	37.90	-3.6	54.0	16.1	PK	100.0	0.00	VERTICAL
1364.500000	40.60	-3.3	54.0	13.4	PK	100.0	132.00	VERTICAL
1439.000000	39.10	-3.2	54.0	14.9	PK	100.0	268.00	VERTICAL
1754.000000	39.50	-1.3	54.0	14.5	PK	100.0	156.00	VERTICAL
1992.000000	40.50	0.2	54.0	13.5	PK	100.0	32.00	VERTICAL

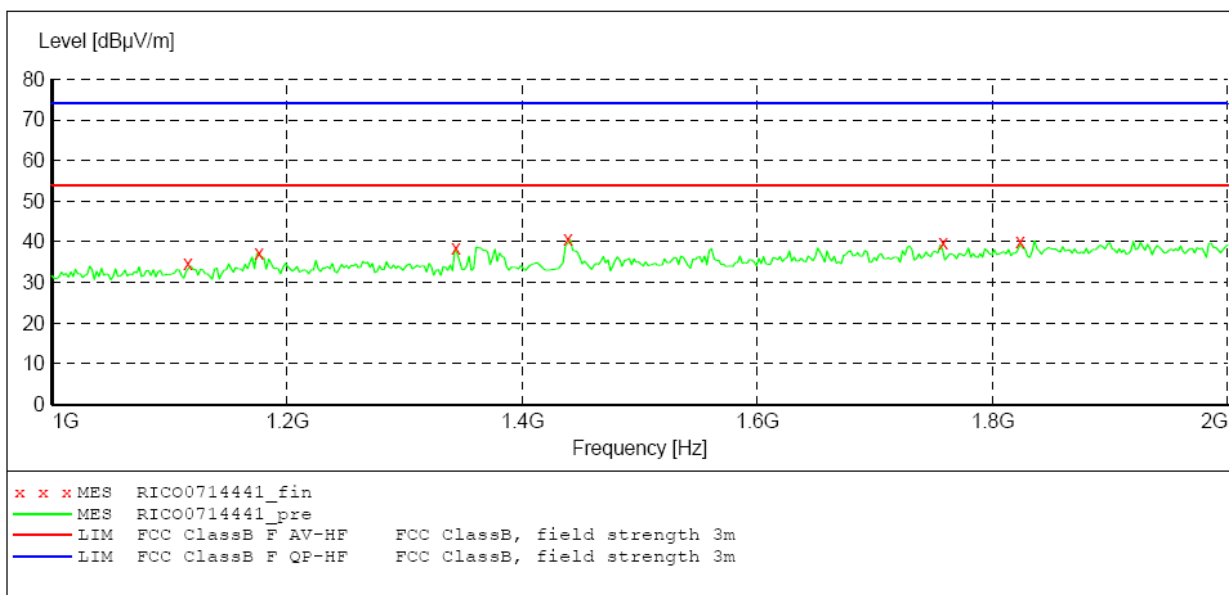
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: FAX TX
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 6:22:18PM

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

Short Description:		Field Strength(30M-1G)					
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: "RICO0714441_fin"

7/14/2013 6:29PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1109.000000	34.70	-3.6	54.0	19.3	PK	100.0	159.00	HORIZONTAL
1169.500000	38.30	-3.5	54.0	15.7	PK	100.0	238.00	HORIZONTAL
1343.500000	39.20	-3.3	54.0	14.8	PK	100.0	206.00	HORIZONTAL
1439.000000	40.00	-3.2	54.0	14.0	PK	100.0	230.00	HORIZONTAL
1762.500000	39.80	-1.2	54.0	14.2	PK	100.0	4.00	HORIZONTAL
1823.500000	39.60	-0.8	54.0	14.4	PK	100.0	309.00	HORIZONTAL

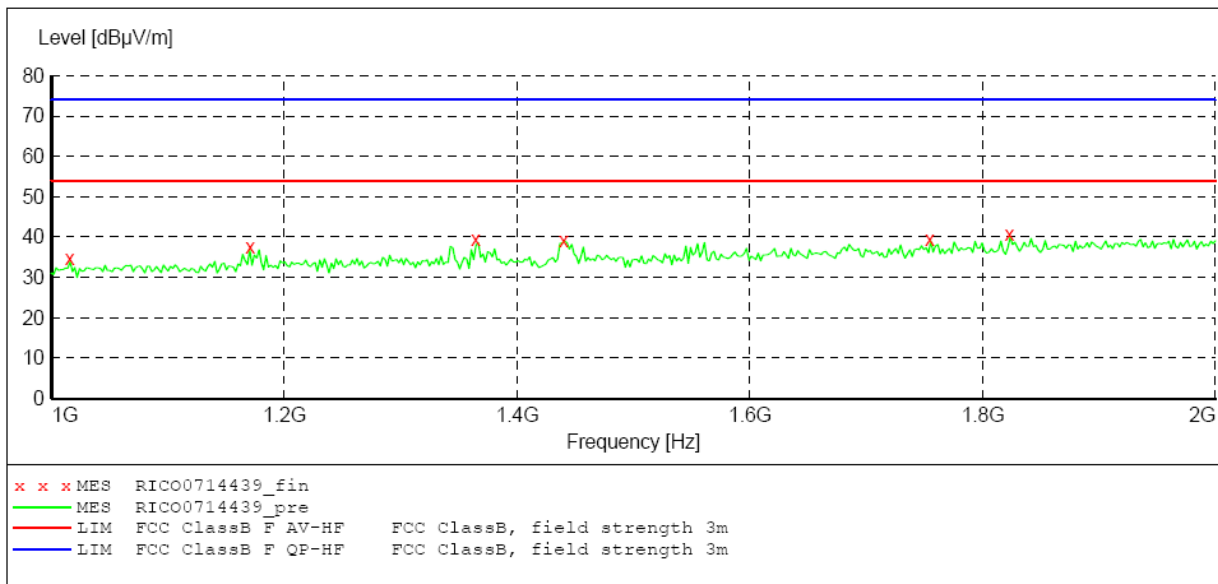
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: FAX RX
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 6:10:29PM

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

Short Description:		Field Strength(30M-1G)				
Start Frequency	Stop Frequency	Step Width	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: "RICO0714439_fin"

7/14/2013 6:17PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1018.500000	33.60	-3.7	54.0	20.4	PK	100.0	188.00	HORIZONTAL
1170.500000	37.80	-3.5	54.0	16.2	PK	100.0	221.00	HORIZONTAL
1364.500000	39.30	-3.3	54.0	14.7	PK	100.0	202.00	HORIZONTAL
1440.000000	39.20	-3.2	54.0	14.8	PK	100.0	12.00	HORIZONTAL
1754.500000	38.90	-1.3	54.0	15.1	PK	100.0	215.00	HORIZONTAL
1823.000000	40.60	-0.8	54.0	13.4	PK	100.0	305.00	HORIZONTAL

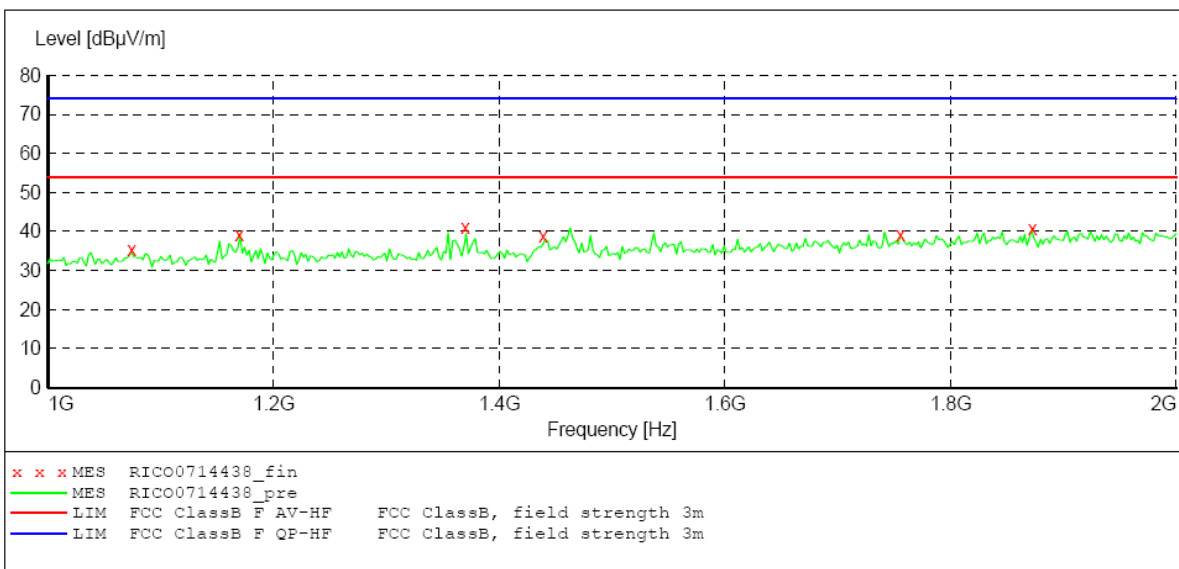
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD

RADIATED EMISSION TEST FCC PART 15B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: FAX RX
 Test Site: 3M CHAMBER
 Operator: Jerome Luo
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 6:03:10PM

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: "RICO0714438_fin"

7/14/2013 6:09PM

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
1076.500000	34.80	-3.6	54.0	19.2	PK	100.0	45.00	VERTICAL
1169.500000	38.70	-3.5	54.0	15.3	PK	100.0	357.00	VERTICAL
1365.500000	40.60	-3.3	54.0	13.4	PK	100.0	128.00	VERTICAL
1439.000000	39.10	-3.2	54.0	14.9	PK	100.0	272.00	VERTICAL
1755.500000	38.90	-1.3	54.0	15.1	PK	100.0	170.00	VERTICAL
1872.500000	40.00	-0.5	54.0	14.0	PK	100.0	120.00	VERTICAL

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. 3

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, Print, ADF Copy, Scan, FAX Tx, FAX Rx modes during the test and the results of the maximum emanation 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

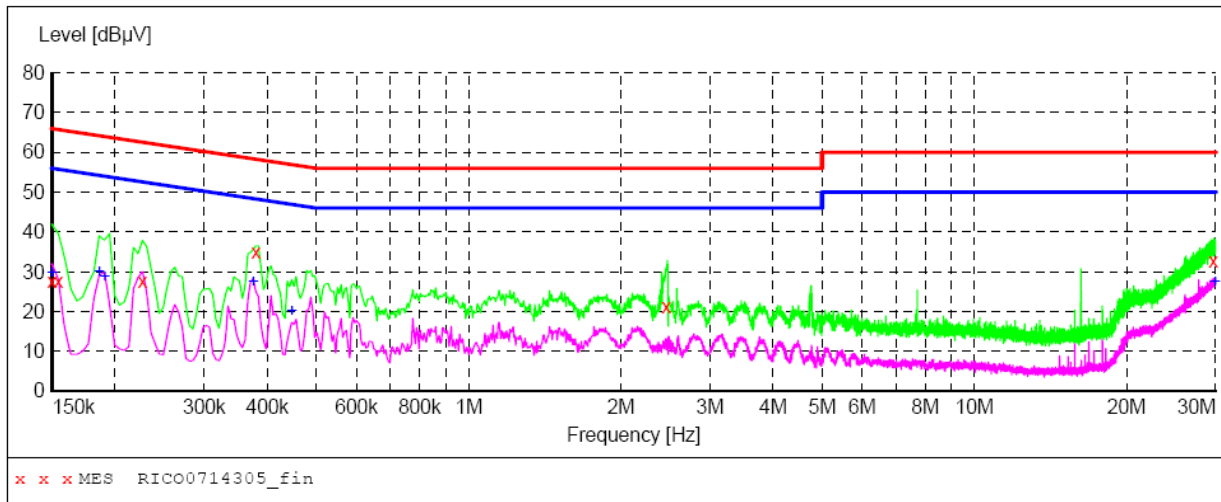
Transducer=insertion loss of LISN+cable loss+insertion loss of pulse limiter

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNw
Manufacturer: RICOH
Operating Condition: STANDBY
Test Site: 3# SHIELDED ROOM
Operator: MINGHUA.FAN
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 7/14/2013 / 10:28:28AM

SCAN TABLE: "Voltage (9K-30M)FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714305_fin"

7/14/2013 10:34AM

Table with 9 columns: Frequency (MHz), Level (dBµV), Transd (dB), Limit (dBµV), Margin (dB), Detector, Line, PE. It lists measurement data points for various frequencies.

MEASUREMENT RESULT: "RICO0714305_fin2"

7/14/2013 10:34AM

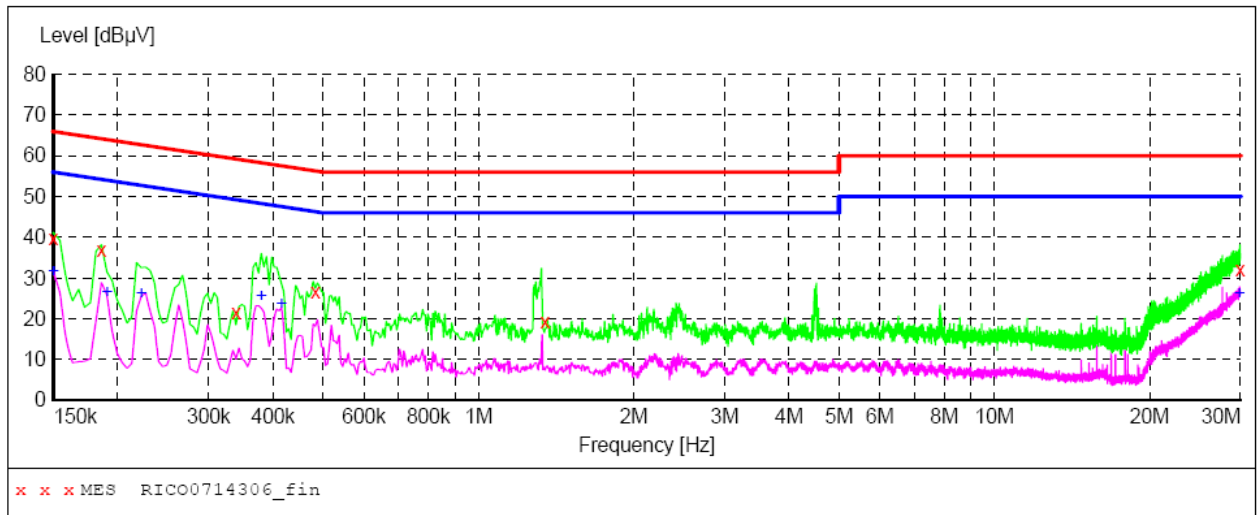
Table with 9 columns: Frequency (MHz), Level (dBµV), Transd (dB), Limit (dBµV), Margin (dB), Detector, Line, PE. It lists measurement data points for various frequencies.

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: STANDBY
 Test Site: 3# SHIELDED ROOM
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 10:35:09AM

SCAN TABLE: "Voltage (9K-30M)FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714306_fin"

7/14/2013 10:38AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	39.70	10.2	66	26.3	QP	N	GND
0.186000	36.80	10.2	64	27.4	QP	N	GND
0.339000	21.40	10.3	59	37.8	QP	N	GND
0.483000	26.70	10.4	56	29.6	QP	N	GND
1.347000	19.40	10.2	56	36.6	QP	N	GND
29.953500	32.20	10.6	60	27.8	QP	N	GND

MEASUREMENT RESULT: "RICO0714306_fin2"

7/14/2013 10:38AM

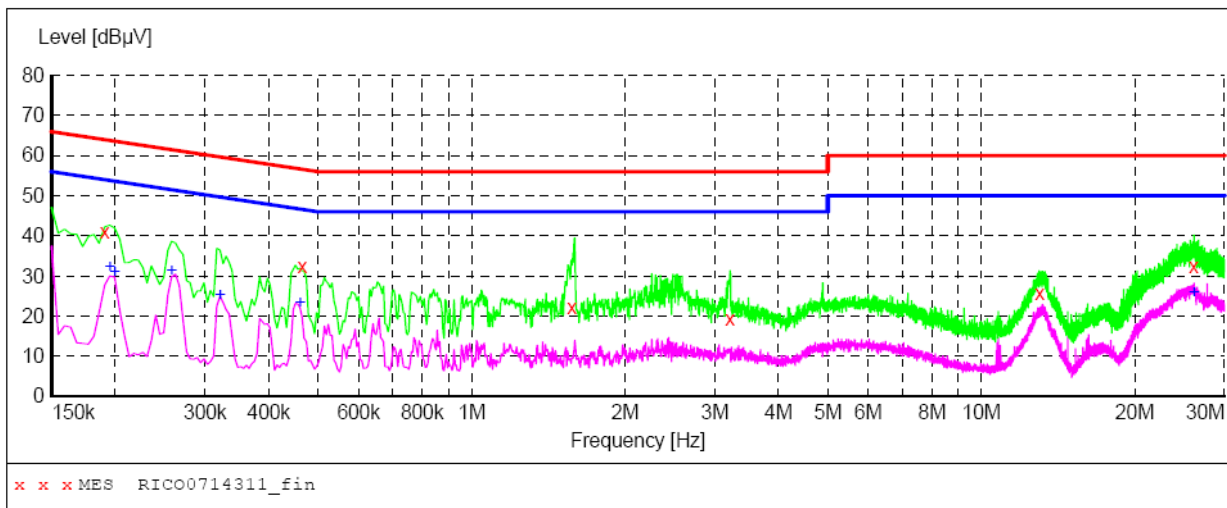
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	31.70	10.2	56	24.3	AV	N	GND
0.190500	26.60	10.2	54	27.4	AV	N	GND
0.222000	26.20	10.2	53	26.5	AV	N	GND
0.379500	25.80	10.3	48	22.5	AV	N	GND
0.415000	23.80	10.3	48	24.5	AV	N	GND
29.859000	26.40	10.6	50	23.6	AV	N	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: ADF COPY
 Test Site: 3# SHIELDED ROOM
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 11:34:17AM

SCAN TABLE: "Voltage (9K-30M)FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714311_fin"

7/16/2013 10:13AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.190500	40.90	10.2	64	23.1	QP	N	GND
0.465000	32.40	10.4	57	24.6	QP	N	GND
1.572000	22.30	10.2	56	33.7	QP	N	GND
3.214500	19.20	10.2	56	36.8	QP	N	GND
13.015500	25.80	10.3	60	34.2	QP	N	GND
26.106000	32.50	10.6	60	27.5	QP	N	GND

MEASUREMENT RESULT: "RICO0714311_fin2"

7/14/2013 11:37AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	32.30	10.2	54	21.5	AV	N	GND
0.199500	31.00	10.2	54	22.6	AV	N	GND
0.258000	31.50	10.2	52	20.0	AV	N	GND
0.321000	25.30	10.3	50	24.4	AV	N	GND
0.460500	23.30	10.4	47	23.4	AV	N	GND
26.142000	26.00	10.6	50	24.0	AV	N	GND

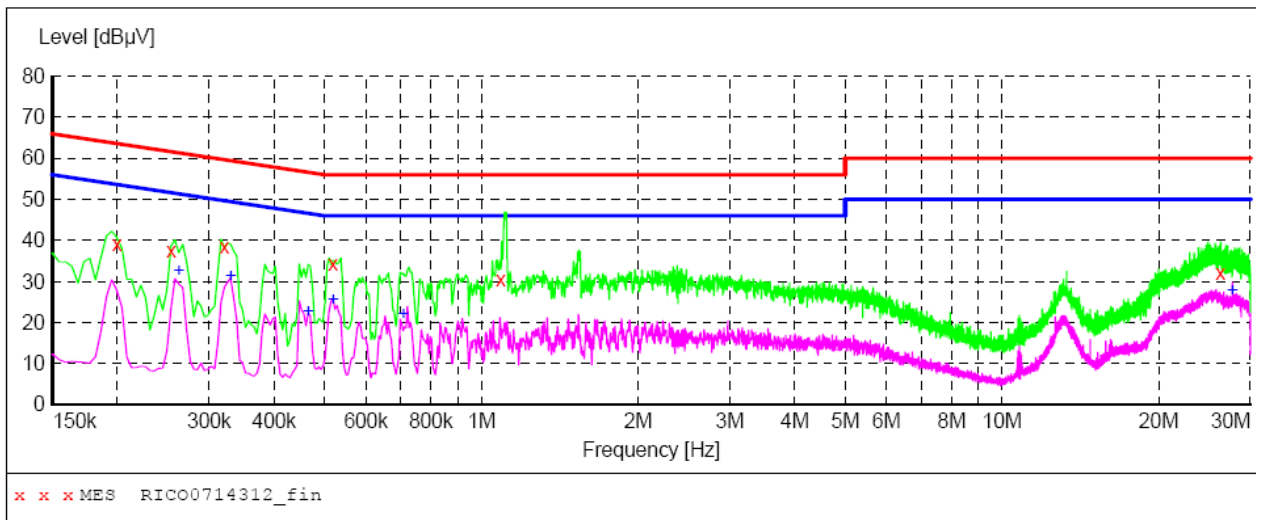
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: ADF COPY
 Test Site: 3# SHIELDED ROOM
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 11:40:30AM

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714312_fin"

7/16/2013 10:15AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.199500	39.10	10.2	64	24.5	QP	L1	GND
0.253500	37.40	10.2	62	24.2	QP	L1	GND
0.321000	38.60	10.3	60	21.4	QP	L1	GND
0.519000	34.30	10.4	56	21.7	QP	L1	GND
1.090500	30.40	10.2	56	25.6	QP	L1	GND
26.308500	32.20	10.6	60	27.8	QP	L1	GND

MEASUREMENT RESULT: "RICO0714312_fin2"

7/14/2013 11:41AM

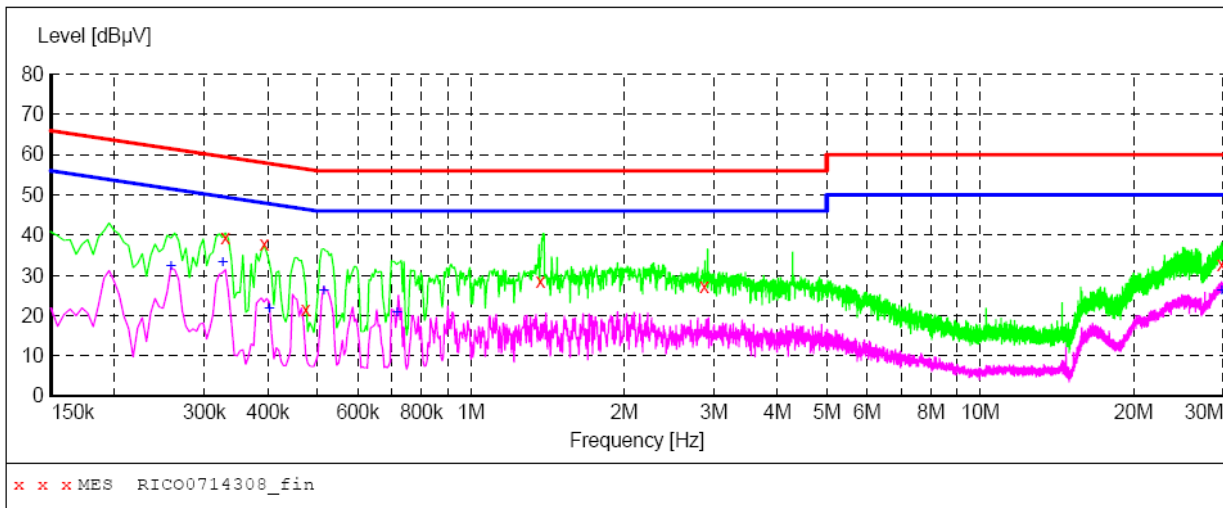
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.262500	32.80	10.2	51	18.6	AV	L1	GND
0.330000	31.50	10.3	50	18.0	AV	L1	GND
0.465000	22.80	10.4	47	23.8	AV	L1	GND
0.519000	25.80	10.4	46	20.2	AV	L1	GND
0.708000	22.10	10.1	46	23.9	AV	L1	GND
27.685500	28.00	10.6	50	22.0	AV	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: USB PRINT
 Test Site: 3# SHIELDED ROOM
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 10:56:29AM

SCAN TABLE: "Voltage (9K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714308_fin"

7/16/2013 10:08AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.330000	39.50	10.3	60	20.0	QP	L1	GND
0.393000	37.90	10.3	58	20.1	QP	L1	GND
0.474000	21.60	10.4	56	34.8	QP	L1	GND
1.369500	28.50	10.2	56	27.5	QP	L1	GND
2.872500	27.20	10.2	56	28.8	QP	L1	GND
29.796000	32.70	10.6	60	27.3	QP	L1	GND

MEASUREMENT RESULT: "RICO0714308_fin2"

7/14/2013 10:59AM

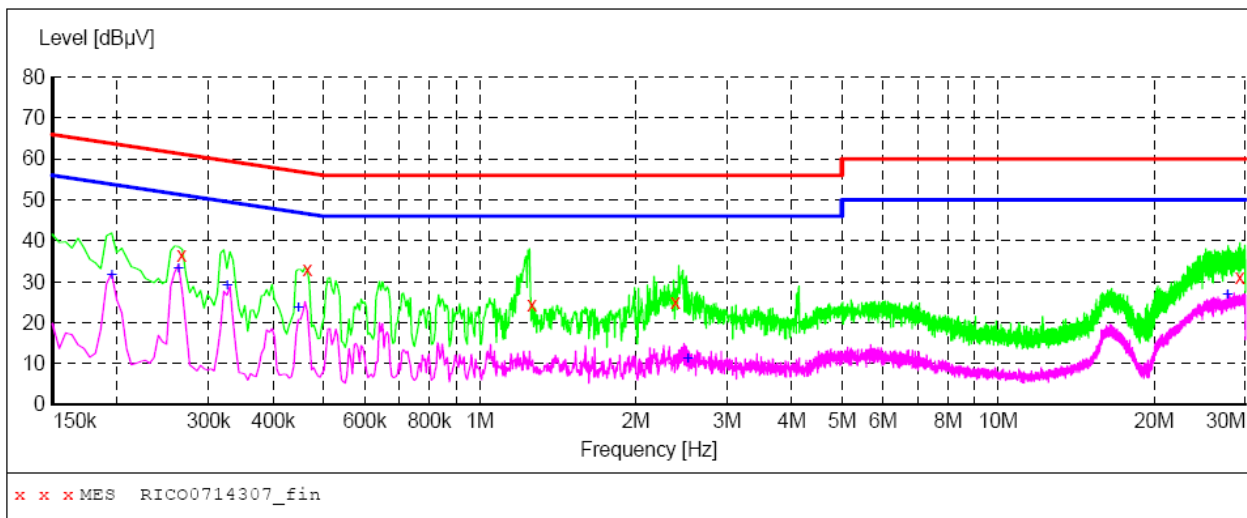
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.258000	32.50	10.2	52	19.0	AV	L1	GND
0.325500	33.40	10.3	50	16.2	AV	L1	GND
0.402000	21.90	10.3	48	25.9	AV	L1	GND
0.514500	26.40	10.4	46	19.6	AV	L1	GND
0.717000	20.80	10.1	46	25.2	AV	L1	GND
29.827500	26.20	10.6	50	23.8	AV	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: USB PRINT
 Test Site: 3# SHIELDED ROOM
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 10:55:05AM

SCAN TABLE: "Voltage (9K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714307_fin"

7/15/2013 3:43PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.266000	36.51	10.2	61	24.5	QP	N	GND
0.465000	33.14	10.4	57	23.9	QP	N	GND
1.261500	24.30	10.2	56	31.7	QP	N	GND
2.386500	25.10	10.2	56	30.9	QP	N	GND
29.256000	31.20	10.6	60	28.8	QP	N	GND

MEASUREMENT RESULT: "RICO0714307_fin2"

7/14/2013 10:56AM

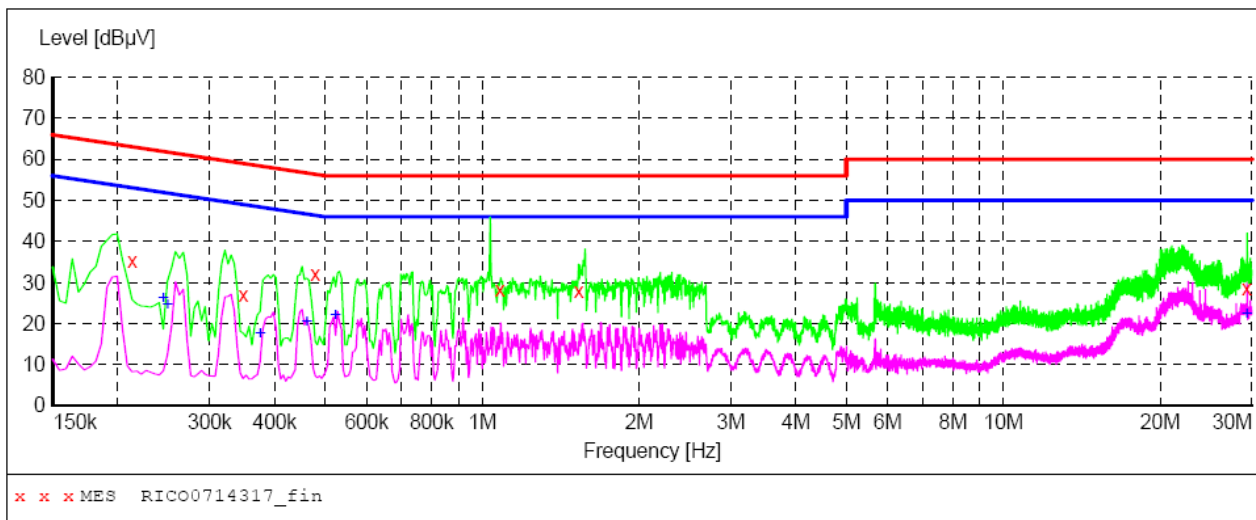
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.195000	31.70	10.2	54	22.1	AV	N	GND
0.262500	33.30	10.2	51	18.1	AV	N	GND
0.325500	29.20	10.3	50	20.4	AV	N	GND
0.447000	23.60	10.4	47	23.3	AV	N	GND
2.521500	11.20	10.2	46	34.8	AV	N	GND
27.690000	27.10	10.6	50	22.9	AV	N	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: NIC PRINT
 Test Site: 3# SHIELDED ROOM
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 3:00:10PM

SCAN TABLE: "Voltage (9K-30M)FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714317_fin"

7/16/2013 10:18AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.213000	35.10	10.2	63	28.0	QP	L1	GND
0.348000	26.90	10.3	59	32.1	QP	L1	GND
0.478500	32.10	10.4	56	23.9	QP	L1	GND
1.081500	28.30	10.2	56	27.7	QP	L1	GND
1.531500	28.00	10.2	56	28.0	QP	L1	GND
29.337000	28.50	10.6	60	31.5	QP	L1	GND

MEASUREMENT RESULT: "RICO0714317_fin2"

7/14/2013 3:03PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.244500	26.20	10.2	52	25.7	AV	L1	GND
0.249000	24.60	10.2	52	27.2	AV	L1	GND
0.375000	17.60	10.3	48	30.8	AV	L1	GND
0.460500	20.70	10.4	47	26.0	AV	L1	GND
0.523500	22.30	10.4	46	23.7	AV	L1	GND
29.332500	22.60	10.6	50	27.4	AV	L1	GND

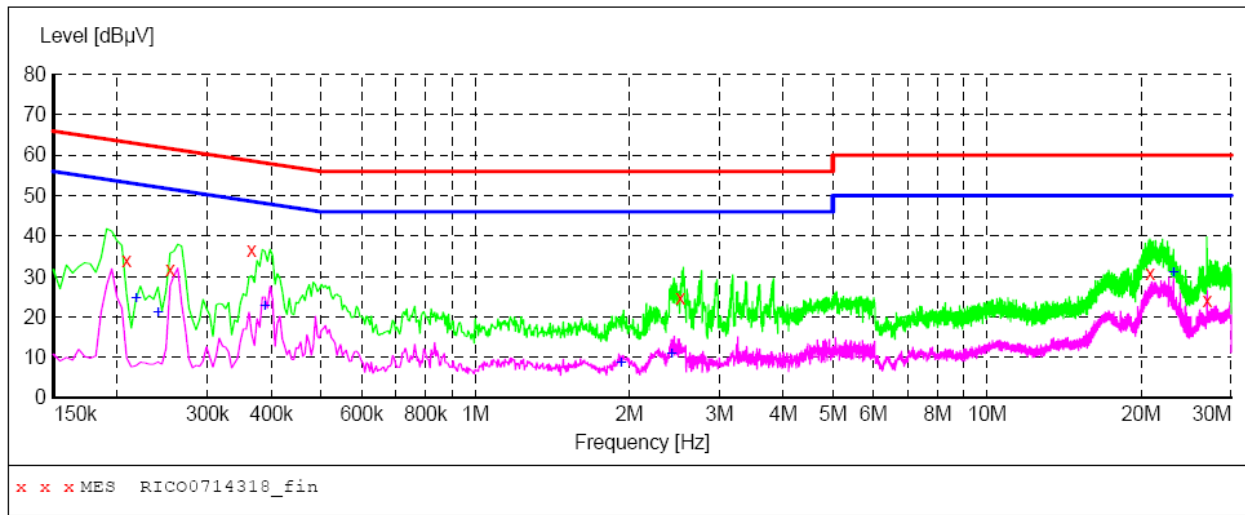
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: NIC PRINT
 Test Site: 3# SHIELDED ROOM
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 3:03:42PM

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714318_fin"

7/16/2013 10:19AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.208500	34.10	10.2	63	29.2	QP	N	GND
0.253500	31.60	10.2	62	30.0	QP	N	GND
0.366000	36.50	10.3	59	22.5	QP	N	GND
2.517000	24.70	10.2	56	31.3	QP	N	GND
20.832000	30.90	10.4	60	29.1	QP	N	GND
26.929500	23.90	10.6	60	36.1	QP	N	GND

MEASUREMENT RESULT: "RICO0714318_fin2"

7/14/2013 3:06PM

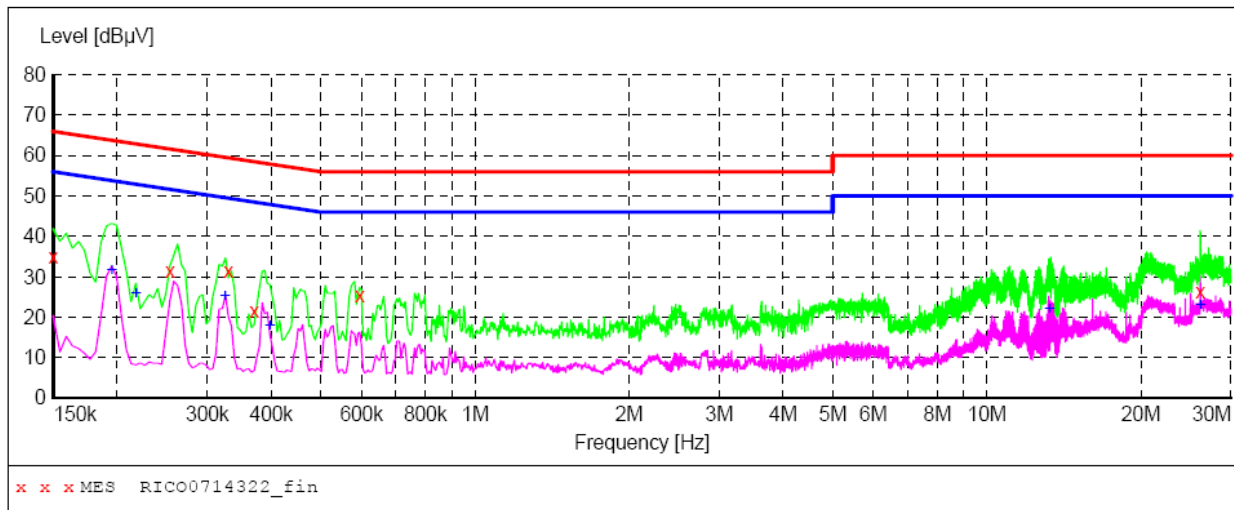
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.217500	24.60	10.2	53	28.3	AV	N	GND
0.240000	21.20	10.2	52	30.9	AV	N	GND
0.388500	22.90	10.3	48	25.2	AV	N	GND
1.927500	8.80	10.2	46	37.2	AV	N	GND
2.422500	11.00	10.2	46	35.0	AV	N	GND
23.127000	31.20	10.5	50	18.8	AV	N	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: WIFI PRINT
 Test Site: 3# SHIELDED ROOM
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 3:56:50PM

SCAN TABLE: "Voltage (9K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714322_fin"

7/14/2013 4:00PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	34.80	10.2	66	31.2	QP	N	GND
0.253500	31.30	10.2	62	30.3	QP	N	GND
0.330000	31.40	10.3	60	28.1	QP	N	GND
0.370500	21.60	10.3	59	36.9	QP	N	GND
0.595500	25.40	10.2	56	30.6	QP	N	GND
26.142000	26.40	10.6	60	33.6	QP	N	GND

MEASUREMENT RESULT: "RICO0714322_fin2"

7/16/2013 10:23AM

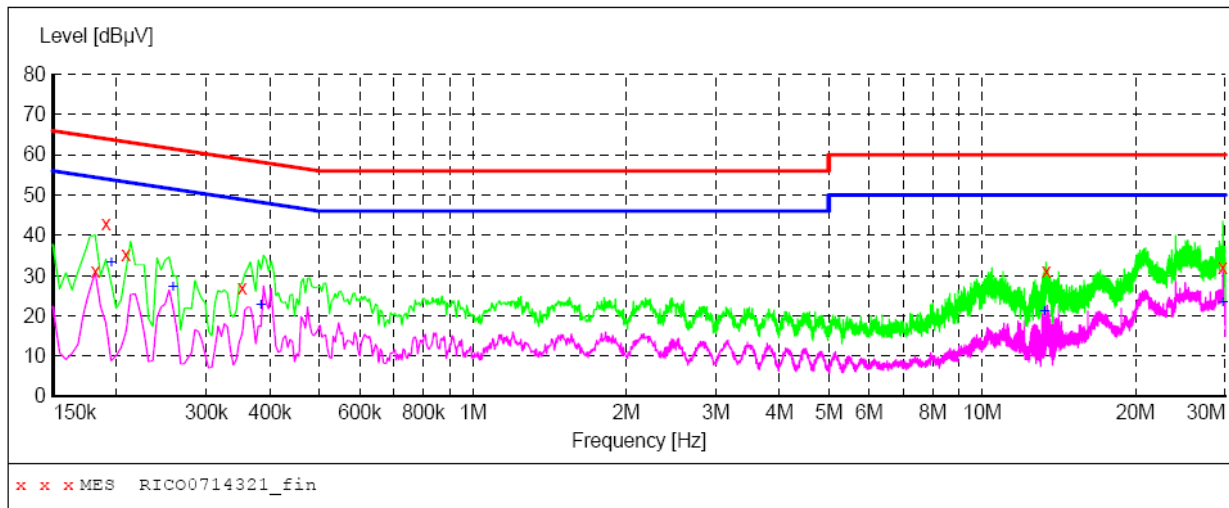
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	31.60	10.2	54	22.4	AV	N	GND
0.217500	25.90	10.2	53	27.0	AV	N	GND
0.325000	25.40	10.3	49	23.6	AV	N	GND
0.397500	18.00	10.3	48	29.9	AV	N	GND
13.249500	22.00	10.3	50	28.0	AV	N	GND
26.146500	23.10	10.6	50	26.9	AV	N	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
Manufacturer: RICOH
Operating Condition: WIFI PRINT
Test Site: 3# SHIELDED ROOM
Operator: MINGHUA.FAN
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 7/14/2013 / 3:53:57PM

SCAN TABLE: "Voltage (9K-30M)FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714321_fin"

7/14/2013 3:56PM

Table with 9 columns: Frequency MHz, Level dBµV, Transd dB, Limit dBµV, Margin dB, Detector, Line, PE. It lists measurement data points for frequencies ranging from 0.181500 to 29.656500 MHz.

MEASUREMENT RESULT: "RICO0714321_fin2"

7/14/2013 3:56PM

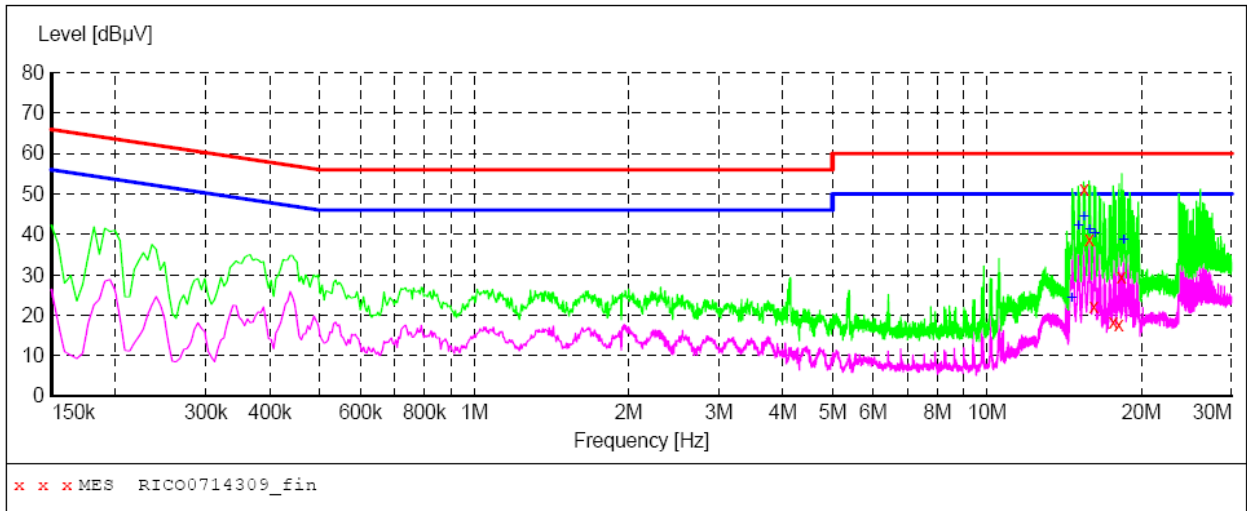
Table with 9 columns: Frequency MHz, Level dBµV, Transd dB, Limit dBµV, Margin dB, Detector, Line, PE. It lists measurement data points for frequencies ranging from 0.195000 to 29.674500 MHz.

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: USB SCAN
 Test Site: 3# SHIELDED ROOM
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 11:23:53AM

SCAN TABLE: "Voltage (9K-30M)FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714309_fin"

7/14/2013 11:28AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
15.472500	51.10	10.4	60	8.9	QP	L1	GND
15.850500	38.80	10.4	60	21.2	QP	L1	GND
16.174500	22.00	10.4	60	38.0	QP	L1	GND
17.623500	18.30	10.4	60	41.7	QP	L1	GND
18.078000	17.70	10.4	60	42.3	QP	L1	GND
18.285000	29.50	10.4	60	30.5	QP	L1	GND

MEASUREMENT RESULT: "RICO0714309_fin2"

7/14/2013 11:28AM

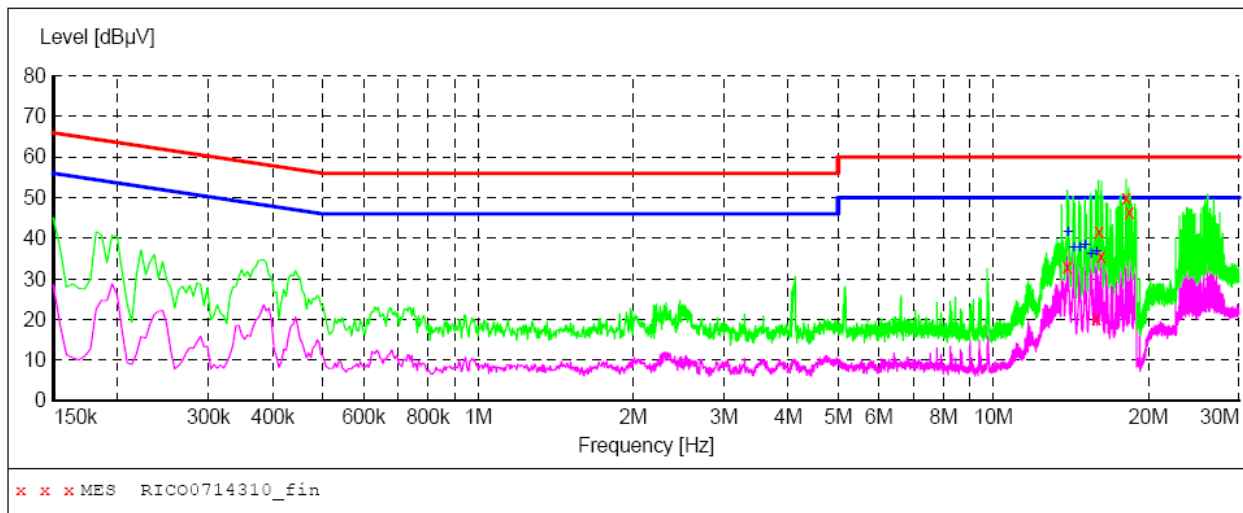
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
14.635500	24.30	10.3	50	25.7	AV	L1	GND
15.099000	42.30	10.4	50	7.7	AV	L1	GND
15.472500	44.40	10.4	50	5.6	AV	L1	GND
15.846000	41.30	10.4	50	8.7	AV	L1	GND
16.224000	40.40	10.4	50	9.6	AV	L1	GND
18.487500	38.70	10.4	50	11.3	AV	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
Manufacturer: RICOH
Operating Condition: USB SCAN
Test Site: 3# SHIELDED ROOM
Operator: MINGHUA.FAN
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 7/14/2013 / 11:29:20AM

SCAN TABLE: "Voltage (9K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714310_fin"

7/14/2013 11:31AM

Table with 8 columns: Frequency MHz, Level dBµV, Transd dB, Limit dBµV, Margin dB, Detector, Line, PE. It lists measurement data points for various frequencies between 13.9 and 18.3 MHz.

MEASUREMENT RESULT: "RICO0714310_fin2"

7/16/2013 10:12AM

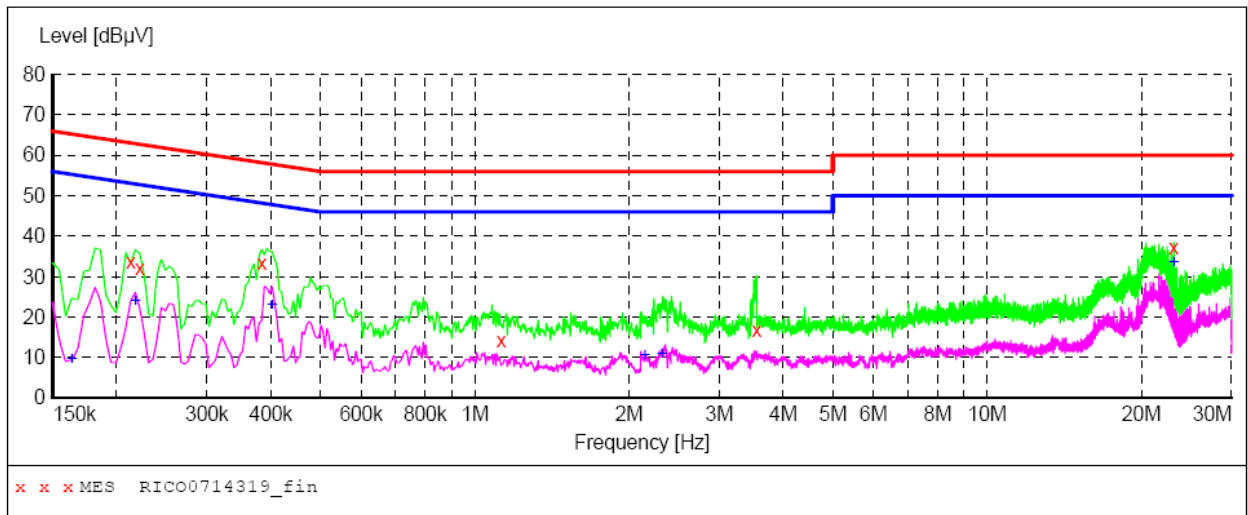
Table with 8 columns: Frequency MHz, Level dBµV, Transd dB, Limit dBµV, Margin dB, Detector, Line, PE. It lists measurement data points for various frequencies between 13.9 and 15.8 MHz.

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
Manufacturer: RICOH
Operating Condition: NIC SCAN
Test Site: 3# SHIELDED ROOM
Operator: MINGHUA.FAN
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 7/14/2013 / 3:10:49PM

SCAN TABLE: "Voltage (9K-30M)FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714319_fin"

7/14/2013 3:13PM

Table with 9 columns: Frequency (MHz), Level (dBµV), Transd (dB), Limit (dBµV), Margin (dB), Detector, Line, PE. It lists measurement data points for frequencies ranging from 0.213000 to 23.127000 MHz.

MEASUREMENT RESULT: "RICO0714319_fin2"

7/14/2013 3:13PM

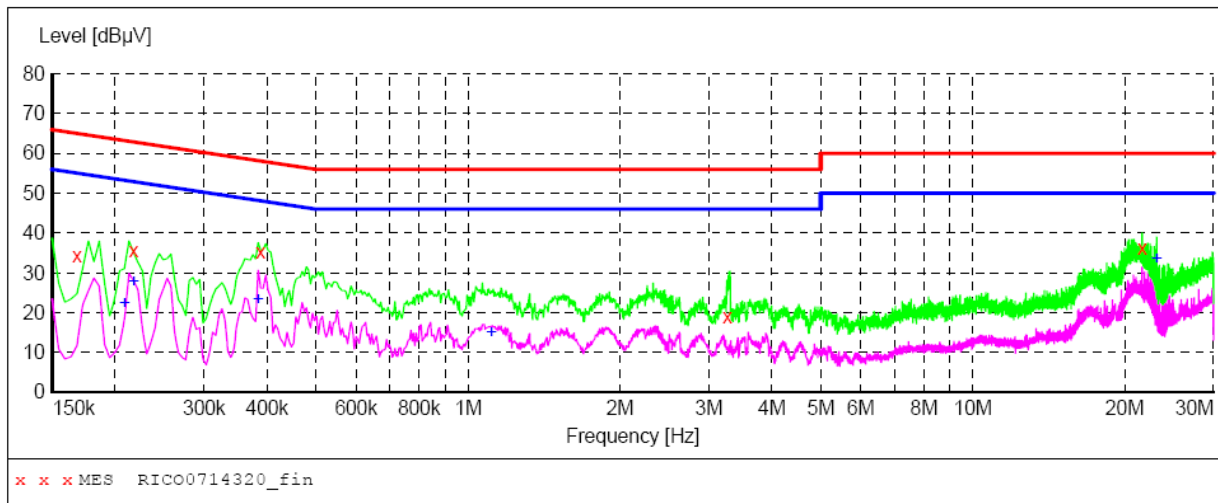
Table with 9 columns: Frequency (MHz), Level (dBµV), Transd (dB), Limit (dBµV), Margin (dB), Detector, Line, PE. It lists measurement data points for frequencies ranging from 0.163500 to 23.127000 MHz.

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: NIC SCAN
 Test Site: 3# SHIELDED ROOM
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 3:13:35PM

SCAN TABLE: "Voltage (9K-30M)FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714320_fin"

7/14/2013 3:15PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.168000	34.40	10.2	65	30.7	QP	L1	GND
0.217500	35.70	10.2	63	27.2	QP	L1	GND
0.388500	35.40	10.3	58	22.7	QP	L1	GND
3.264000	19.10	10.2	56	36.9	QP	L1	GND
21.664500	36.20	10.5	60	23.8	QP	L1	GND

MEASUREMENT RESULT: "RICO0714320_fin2"

7/14/2013 3:15PM

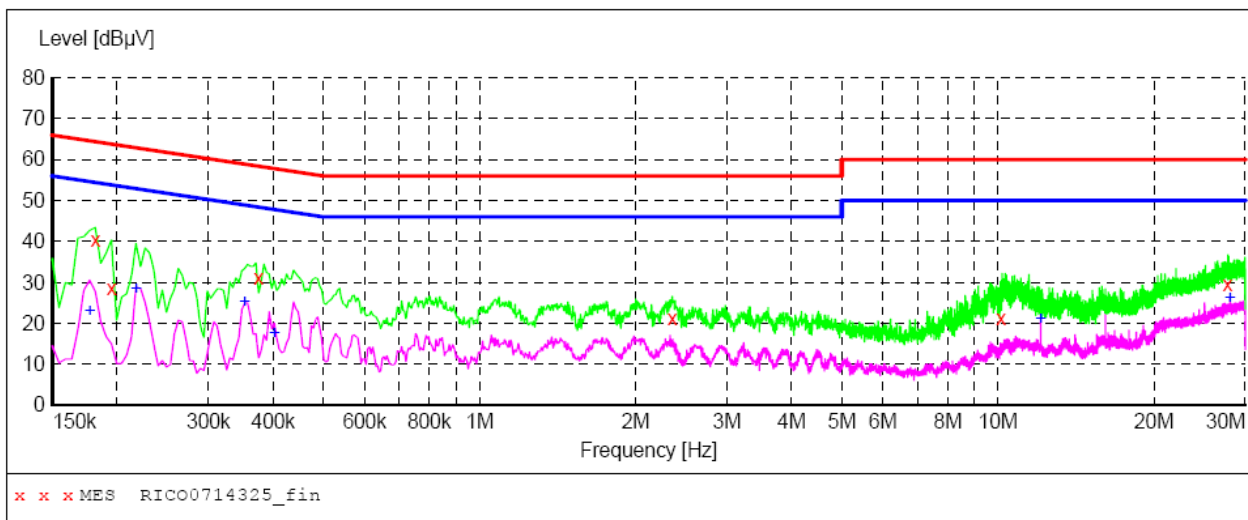
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.208500	22.50	10.2	53	30.8	AV	L1	GND
0.217500	28.00	10.2	53	24.9	AV	L1	GND
0.384000	23.50	10.3	48	24.7	AV	L1	GND
1.113000	15.00	10.2	46	31.0	AV	L1	GND
23.127000	33.70	10.5	50	16.3	AV	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: SCAN TO USB
 Test Site: 3# SHIELDED ROOM
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 4:12:31PM

SCAN TABLE: "Voltage (9K-30M)FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714325_fin"

7/14/2013 4:14PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.181500	40.50	10.2	64	23.9	QP	L1	GND
0.195000	28.40	10.2	64	35.4	QP	L1	GND
0.375000	31.20	10.3	58	27.2	QP	L1	GND
2.355000	21.30	10.2	56	34.7	QP	L1	GND
10.149000	21.20	10.3	60	38.8	QP	L1	GND
27.762000	29.40	10.6	60	30.6	QP	L1	GND

MEASUREMENT RESULT: "RICO0714325_fin2"

7/14/2013 4:14PM

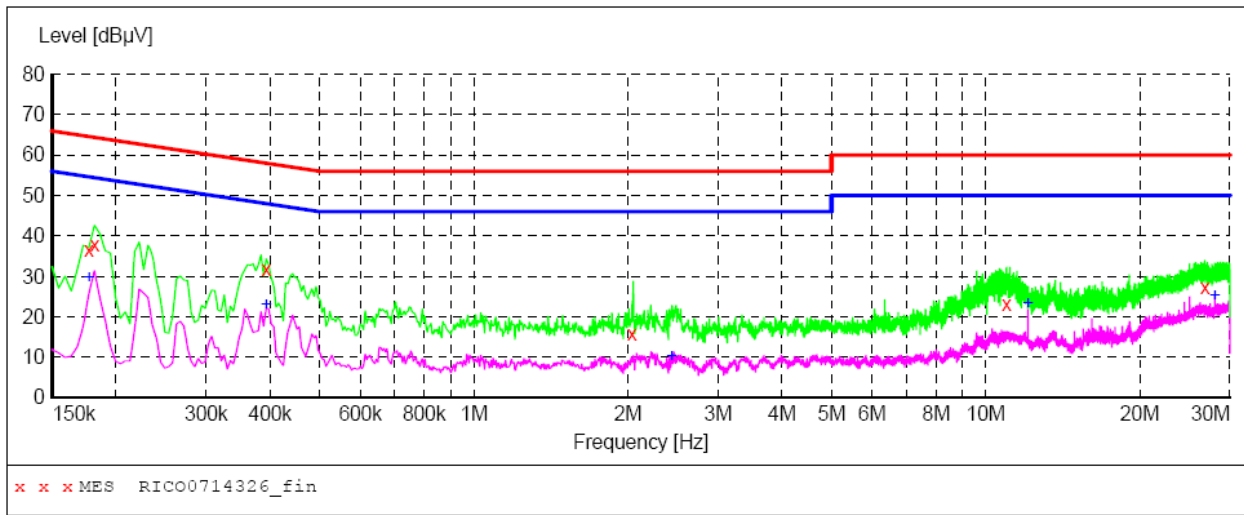
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.177000	23.20	10.2	55	31.4	AV	L1	GND
0.217500	28.40	10.2	53	24.5	AV	L1	GND
0.352500	25.30	10.3	49	23.6	AV	L1	GND
0.402000	17.70	10.3	48	30.1	AV	L1	GND
12.093000	21.30	10.3	50	28.7	AV	L1	GND
28.041000	26.40	10.6	50	23.6	AV	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: SCAN TO USB
 Test Site: 3# SHIELDED ROOM
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 4:15:13PM

SCAN TABLE: "Voltage (9K-30M)FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714326_fin"

7/14/2013 4:17PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.177000	36.60	10.2	65	28.0	QP	N	GND
0.181500	37.70	10.2	64	26.7	QP	N	GND
0.393000	31.70	10.3	58	26.3	QP	N	GND
2.035500	15.90	10.2	56	40.1	QP	N	GND
10.990500	23.10	10.3	60	36.9	QP	N	GND
26.830500	27.40	10.6	60	32.6	QP	N	GND

MEASUREMENT RESULT: "RICO0714326_fin2"

7/14/2013 4:17PM

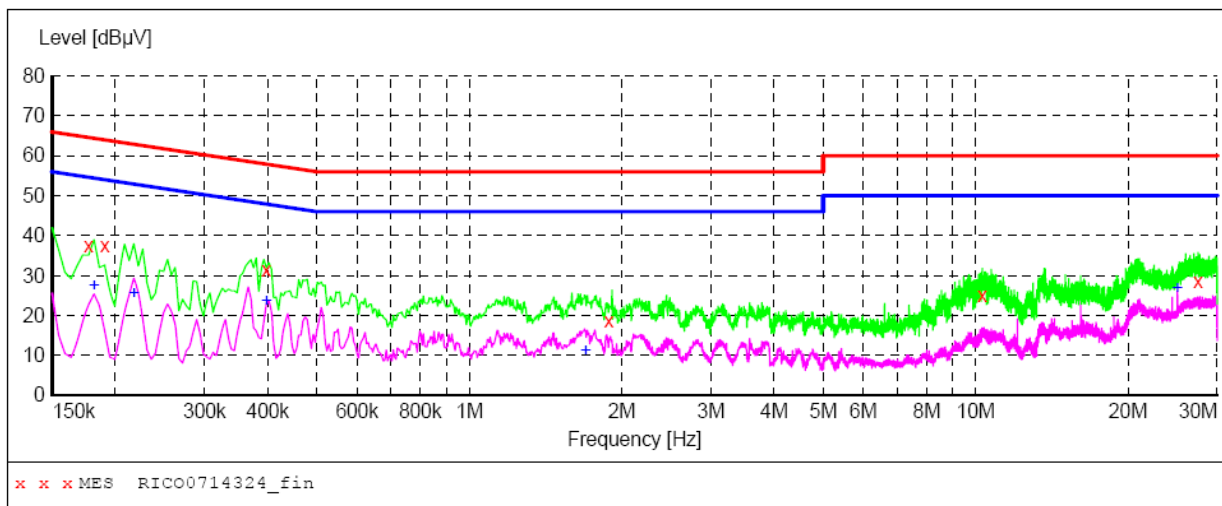
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.177000	29.70	10.2	55	24.9	AV	N	GND
0.393000	23.00	10.3	48	25.0	AV	N	GND
2.436000	10.30	10.2	46	35.7	AV	N	GND
12.097500	23.50	10.3	50	26.5	AV	N	GND
28.041000	25.30	10.6	50	24.7	AV	N	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: WIFI SCAN
 Test Site: 3# SHIELDED ROOM
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 4:07:59PM

SCAN TABLE: "Voltage (9K-30M)FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714324_fin"

7/14/2013 4:10PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.177000	37.50	10.2	65	27.1	QP	L1	GND
0.190500	37.50	10.2	64	26.5	QP	L1	GND
0.397500	31.50	10.3	58	26.4	QP	L1	GND
1.887000	18.70	10.2	56	37.3	QP	L1	GND
10.302000	24.90	10.3	60	35.1	QP	L1	GND
27.487500	28.60	10.6	60	31.4	QP	L1	GND

MEASUREMENT RESULT: "RICO0714324_fin2"

7/14/2013 4:10PM

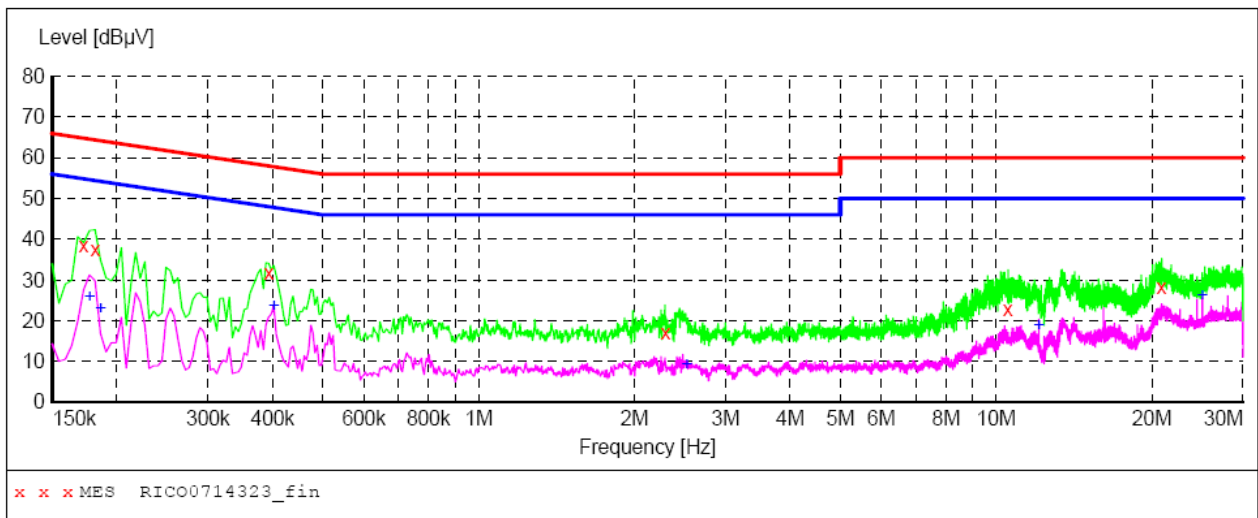
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.181500	27.70	10.2	54	26.7	AV	L1	GND
0.217500	25.80	10.2	53	27.1	AV	L1	GND
0.397500	23.80	10.3	48	24.1	AV	L1	GND
1.698000	11.20	10.2	46	34.8	AV	L1	GND
25.057500	26.80	10.6	50	23.2	AV	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: WIFI SCAN
 Test Site: 3# SHIELDED ROOM
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 4:04:38PM

SCAN TABLE: "Voltage (9K-30M)FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714323_fin"

7/16/2013 10:24AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.172500	38.40	10.2	65	26.6	QP	N	GND
0.181500	37.40	10.2	64	27.0	QP	N	GND
0.393000	31.90	10.3	58	26.1	QP	N	GND
2.296500	16.90	10.2	56	39.1	QP	N	GND
10.540500	22.70	10.3	60	37.3	QP	N	GND
20.854500	28.30	10.4	60	31.7	QP	N	GND

MEASUREMENT RESULT: "RICO0714323_fin2"

7/14/2013 4:07PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.177000	26.10	10.2	55	28.5	AV	N	GND
0.186000	23.00	10.2	54	31.2	AV	N	GND
0.402000	23.60	10.3	48	24.2	AV	N	GND
2.526000	9.40	10.2	46	36.6	AV	N	GND
12.097500	19.00	10.3	50	31.0	AV	N	GND
25.057500	26.40	10.6	50	23.6	AV	N	GND

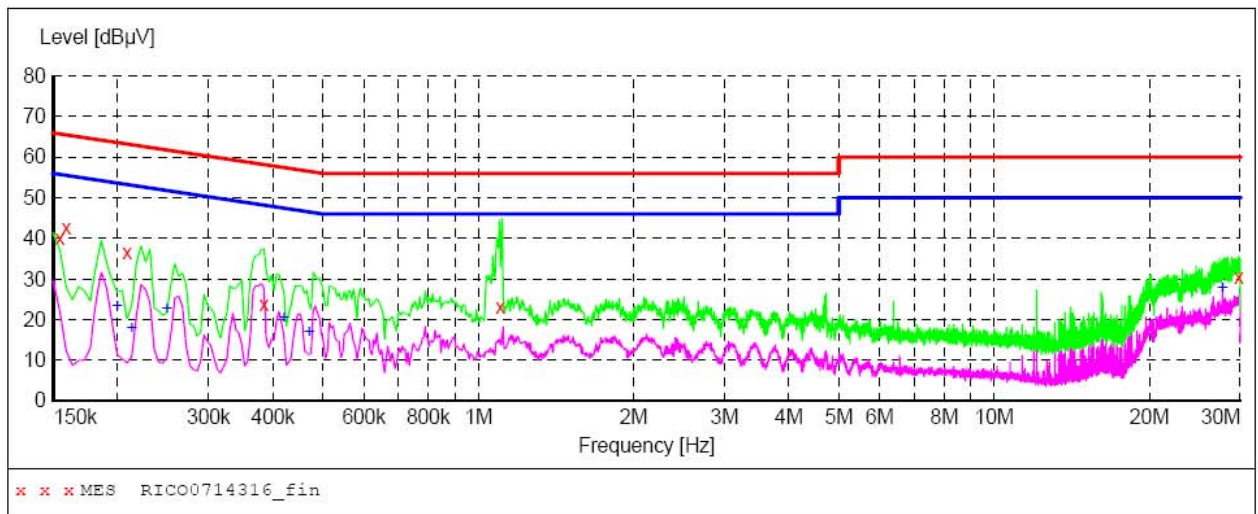
Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: FAX TX
 Test Site: 3# SHIELDED ROOM
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 2:34:19PM

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714316_fin"

7/14/2013 2:36PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.154500	40.00	10.2	66	25.8	QP	L1	GND
0.159000	42.50	10.2	66	23.0	QP	L1	GND
0.208500	36.70	10.2	63	26.6	QP	L1	GND
0.384000	23.80	10.3	58	34.4	QP	L1	GND
1.104000	23.10	10.2	56	32.9	QP	L1	GND
29.836500	30.60	10.6	60	29.4	QP	L1	GND

MEASUREMENT RESULT: "RICO0714316_fin2"

7/14/2013 2:36PM

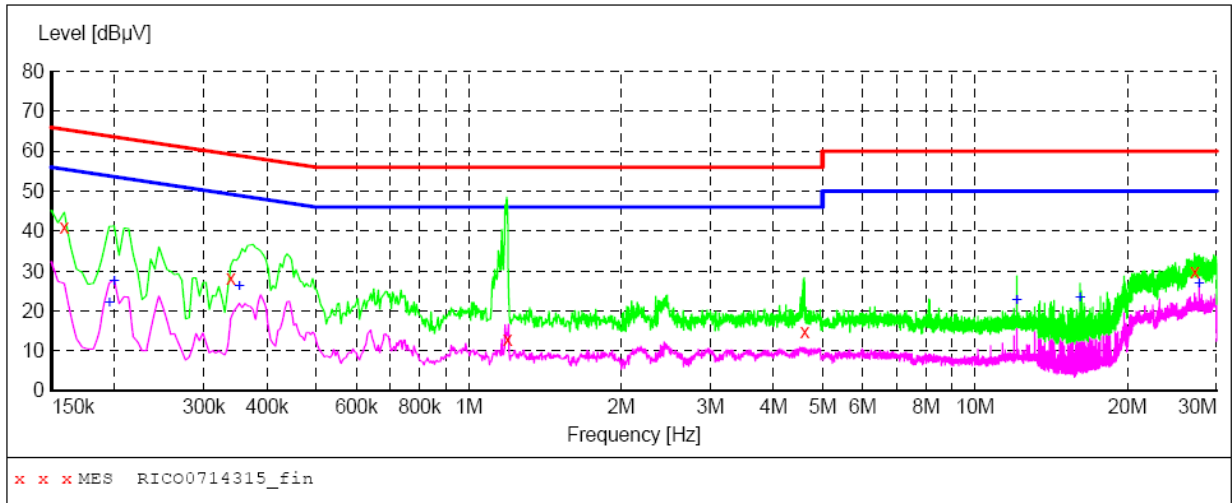
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.199500	23.50	10.2	54	30.1	AV	L1	GND
0.213000	17.90	10.2	53	35.2	AV	L1	GND
0.249000	22.90	10.2	52	28.9	AV	L1	GND
0.420000	20.60	10.4	47	26.8	AV	L1	GND
0.469500	16.90	10.4	47	29.6	AV	L1	GND
27.699000	27.80	10.6	50	22.2	AV	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: FAX TX
 Test Site: 3# SHIELDED ROOM
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 2:31:26PM

SCAN TABLE: "Voltage (9K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714315_fin"

7/14/2013 2:33PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.159000	41.10	10.2	66	24.4	QP	N	GND
0.339000	28.30	10.3	59	30.9	QP	N	GND
1.194000	13.00	10.2	56	43.0	QP	N	GND
4.614000	14.90	10.2	56	41.1	QP	N	GND
27.159000	29.70	10.6	60	30.3	QP	N	GND

MEASUREMENT RESULT: "RICO0714315_fin2"

7/14/2013 2:33PM

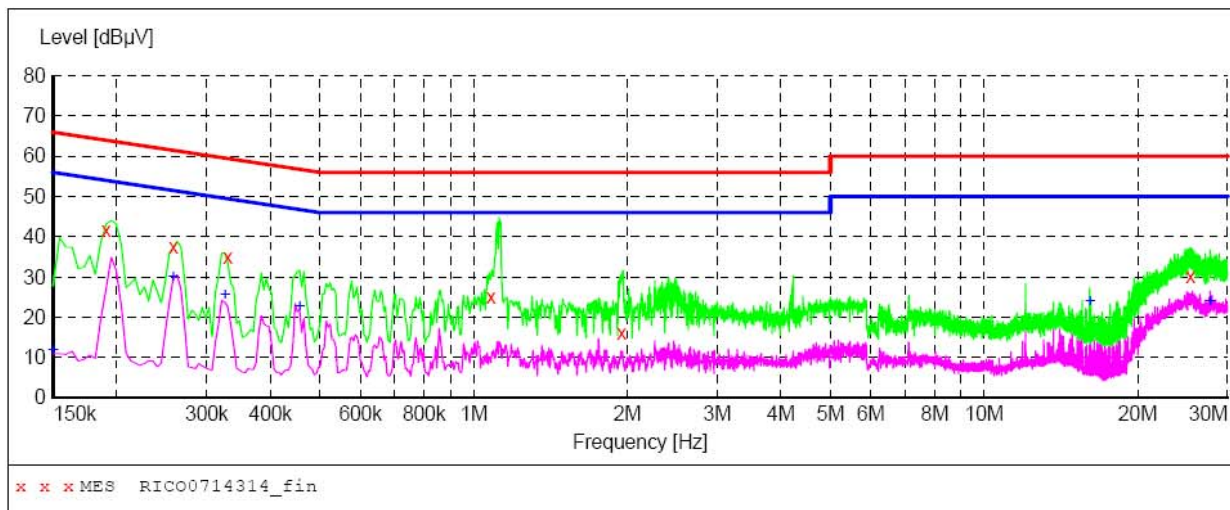
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	22.00	10.2	54	31.8	AV	N	GND
0.199500	27.60	10.2	54	26.0	AV	N	GND
0.352500	26.20	10.3	49	22.7	AV	N	GND
12.097500	22.70	10.3	50	27.3	AV	N	GND
16.129500	23.50	10.4	50	26.5	AV	N	GND
27.703500	27.00	10.6	50	23.0	AV	N	GND

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
Manufacturer: RICOH
Operating Condition: FAX RX
Test Site: 3# SHIELDED ROOM
Operator: MINGHUA.FAN
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 7/14/2013 / 2:27:08PM

SCAN TABLE: "Voltage (9K-30M)FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714314_fin"

Table with 8 columns: Frequency MHz, Level dBµV, Transd dB, Limit dBµV, Margin dB, Detector, Line, PE. Contains 6 rows of measurement data.

MEASUREMENT RESULT: "RICO0714314_fin2"

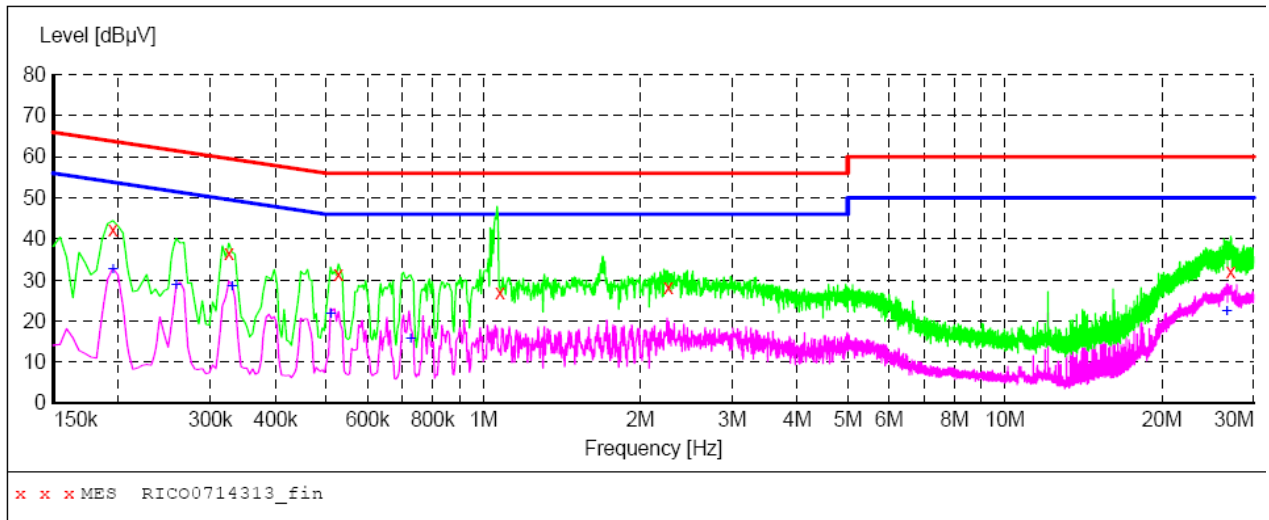
Table with 8 columns: Frequency MHz, Level dBµV, Transd dB, Limit dBµV, Margin dB, Detector, Line, PE. Contains 7 rows of measurement data.

Shenzhen Huatongwei International Inspection CO.,Ltd

Voltage Mains Test FCC PART 15 B

EUT: SP 204SFNW
 Manufacturer: RICOH
 Operating Condition: FAX RX
 Test Site: 3# SHIELDED ROOM
 Operator: MINGHUA.FAN
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 7/14/2013 / 2:21:19PM

SCAN TABLE: "Voltage (9K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RICO0714313_fin"

7/14/2013 2:23PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	42.30	10.2	64	21.5	QP	L1	GND
0.325500	36.50	10.3	60	23.1	QP	L1	GND
0.528000	31.40	10.4	56	24.6	QP	L1	GND
1.077000	27.10	10.2	56	28.9	QP	L1	GND
2.265000	28.10	10.2	56	27.9	QP	L1	GND
27.100500	32.00	10.6	60	28.0	QP	L1	GND

MEASUREMENT RESULT: "RICO0714313_fin2"

7/14/2013 2:23PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	32.80	10.2	54	21.0	AV	L1	GND
0.258000	29.00	10.2	52	22.5	AV	L1	GND
0.330000	28.50	10.3	50	21.0	AV	L1	GND
0.510000	21.90	10.4	46	24.1	AV	L1	GND
0.726000	15.80	10.1	46	30.2	AV	L1	GND
26.641500	22.50	10.6	50	27.5	AV	L1	GND

5. External and Internal Photos of the EUT

5.1. External photos of the EUT

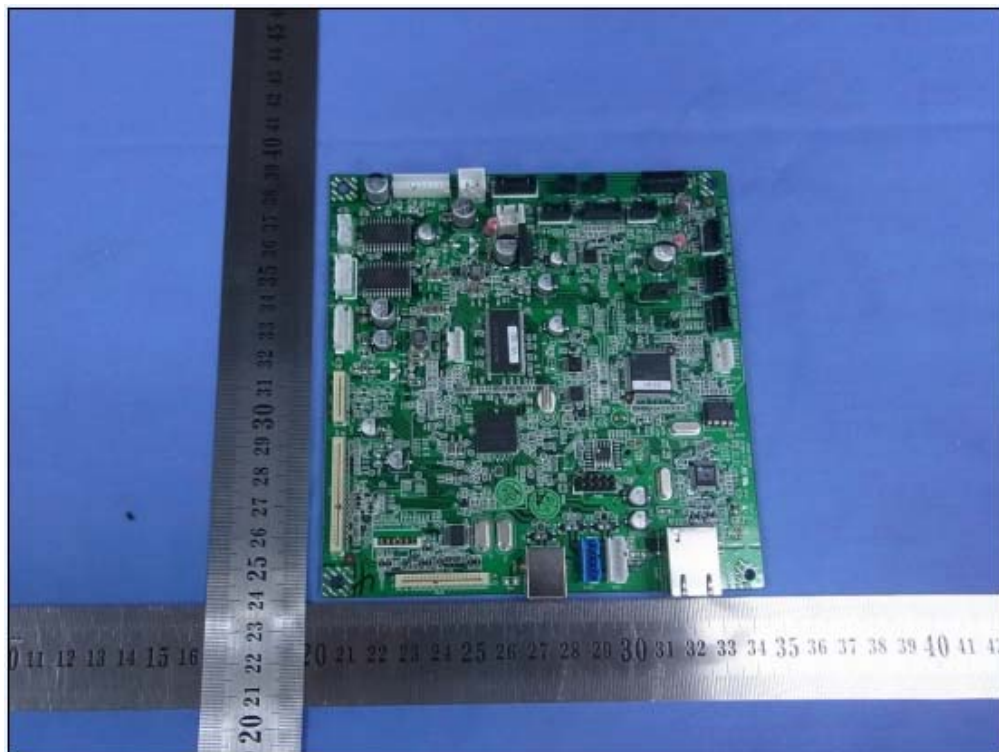


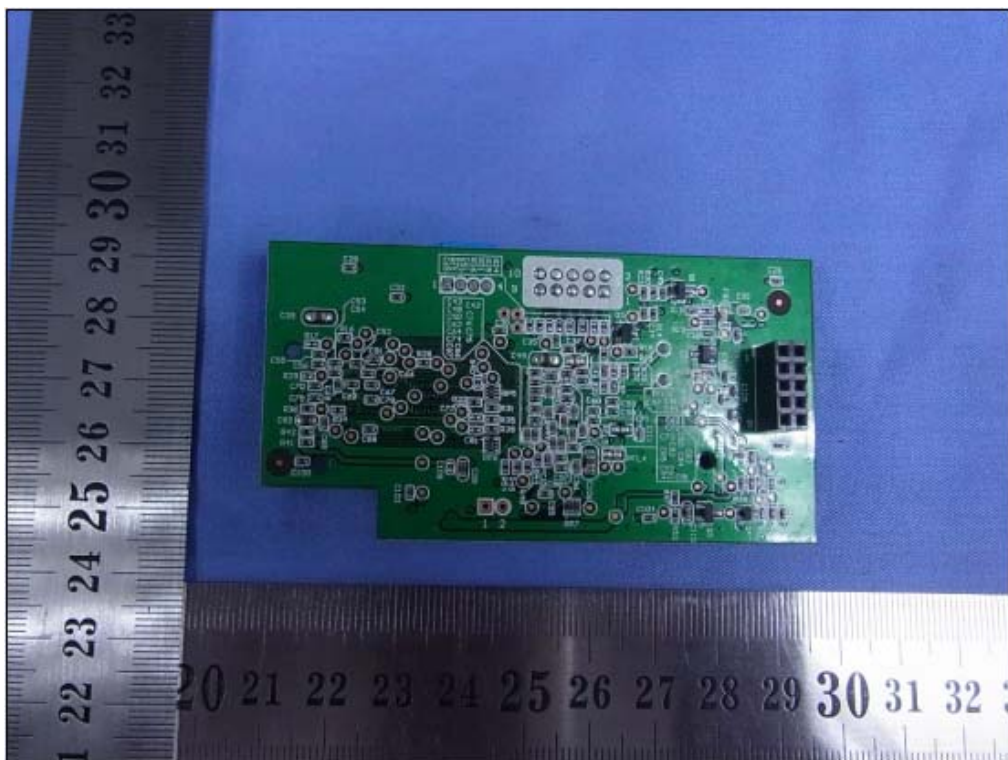


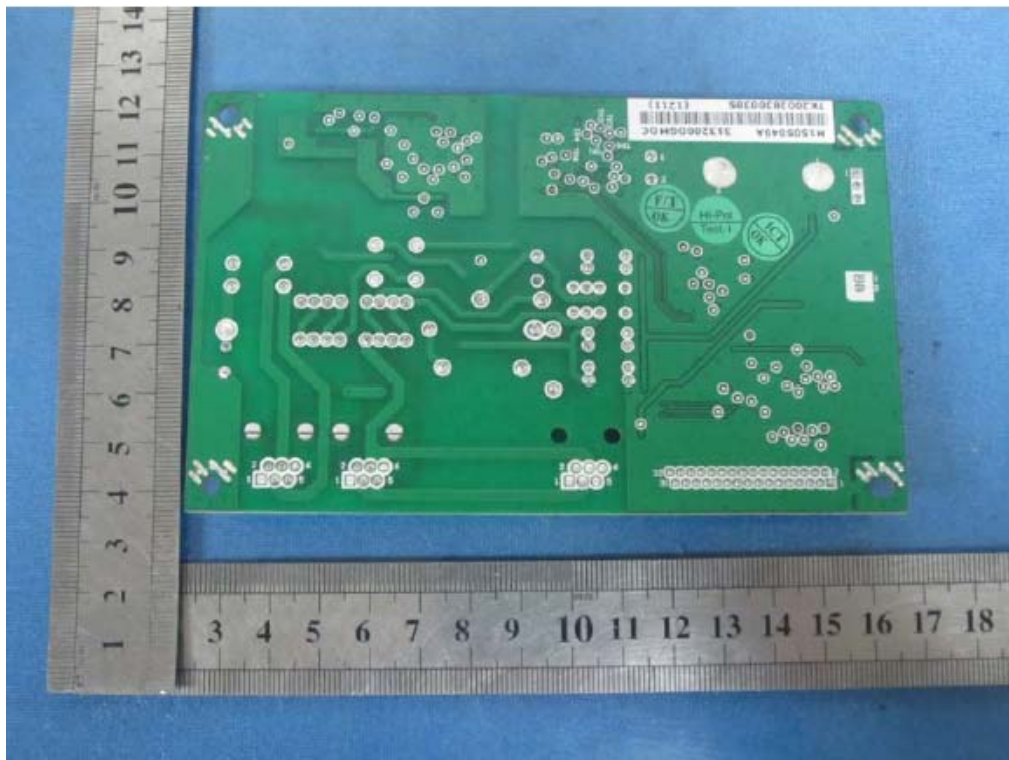
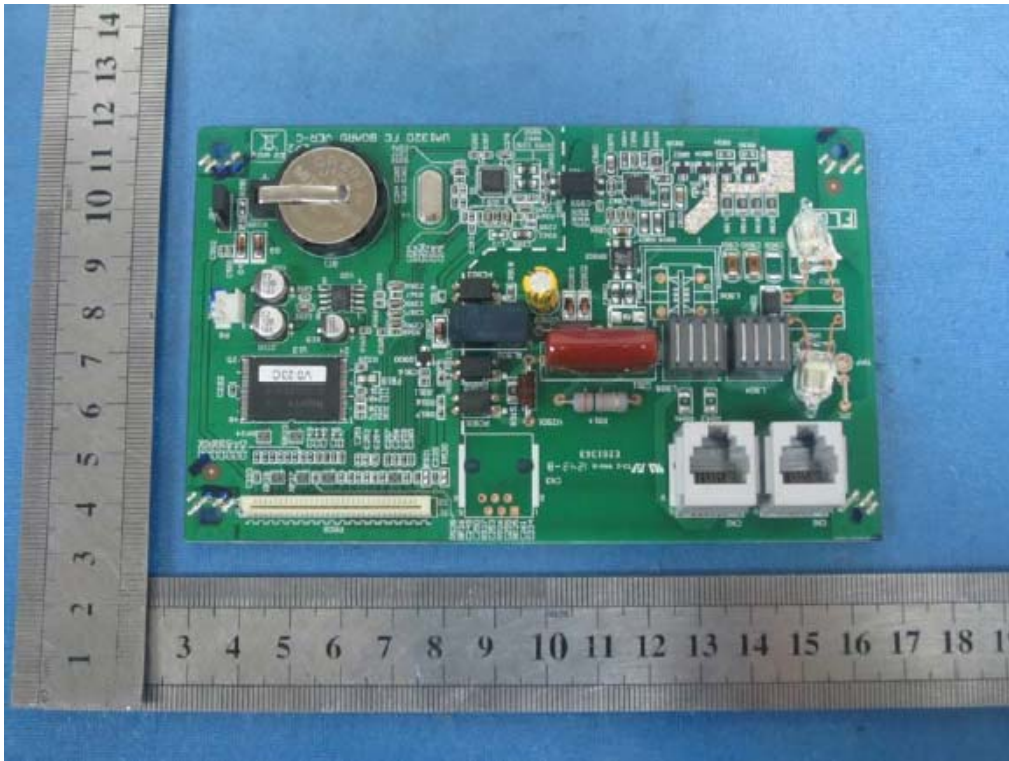
5.2. Internal photos of the EUT

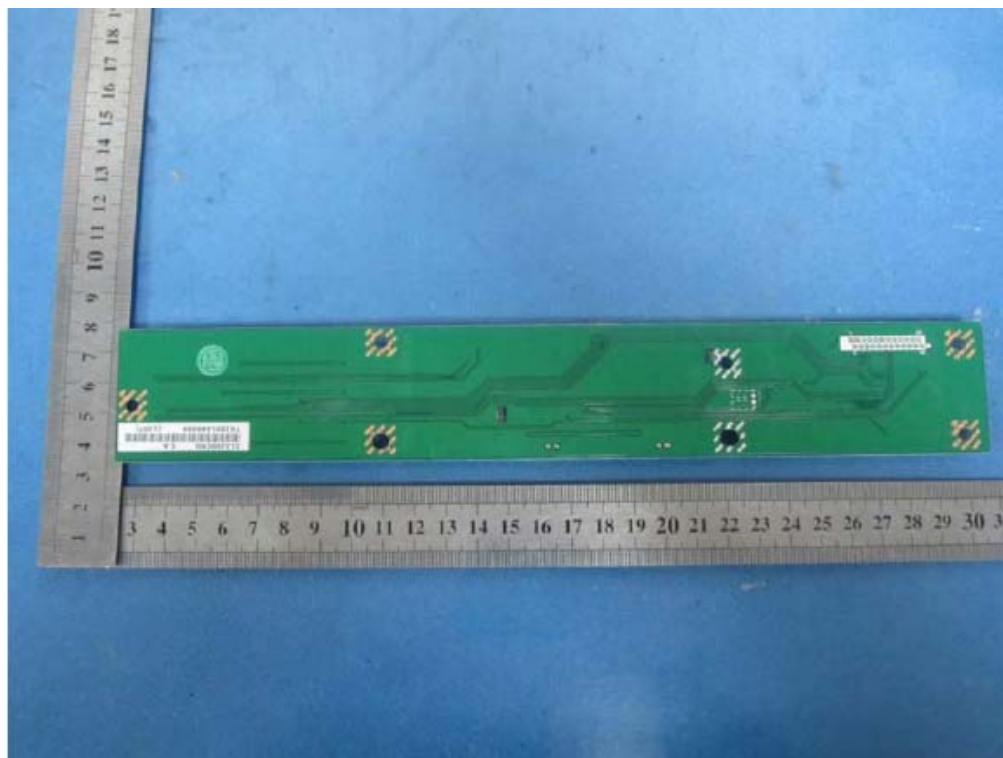
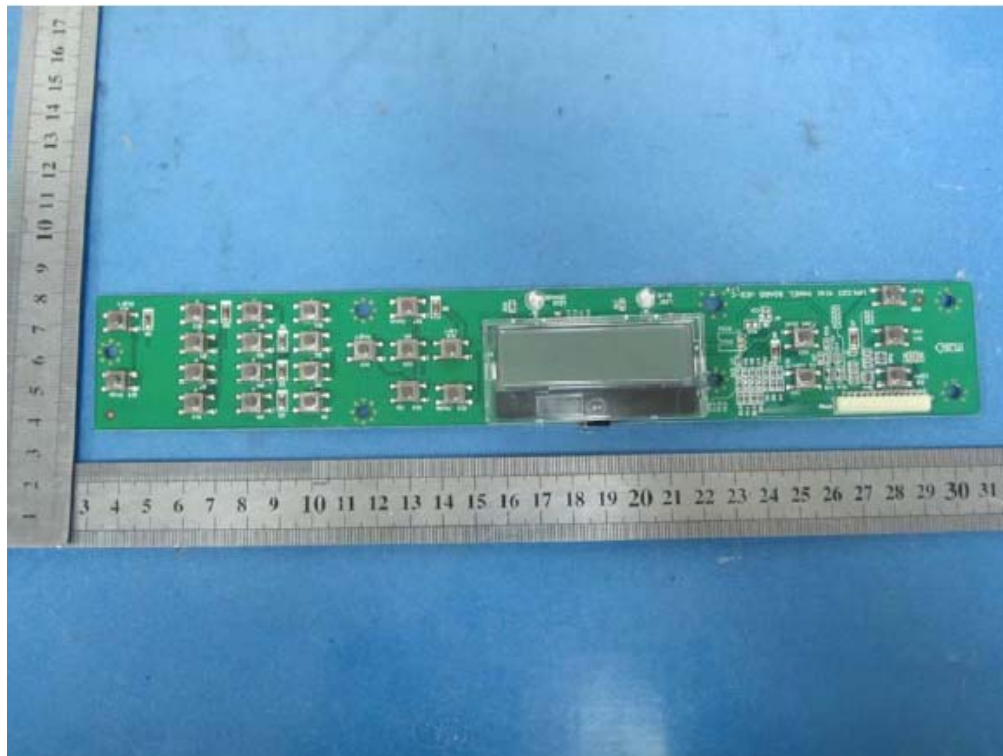


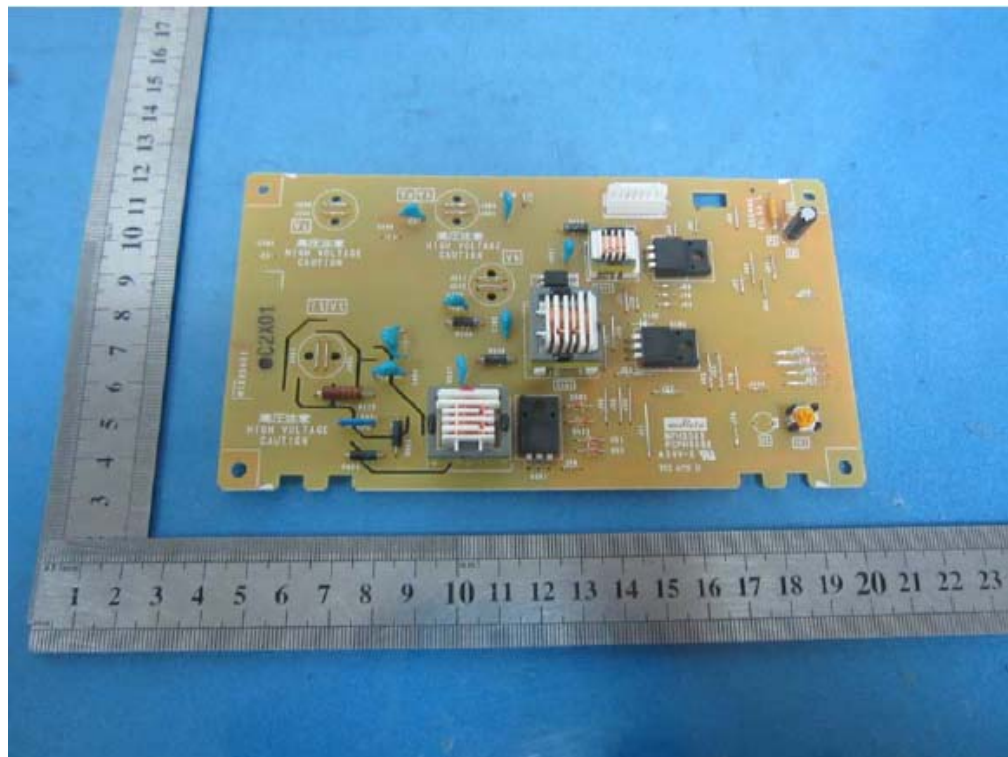
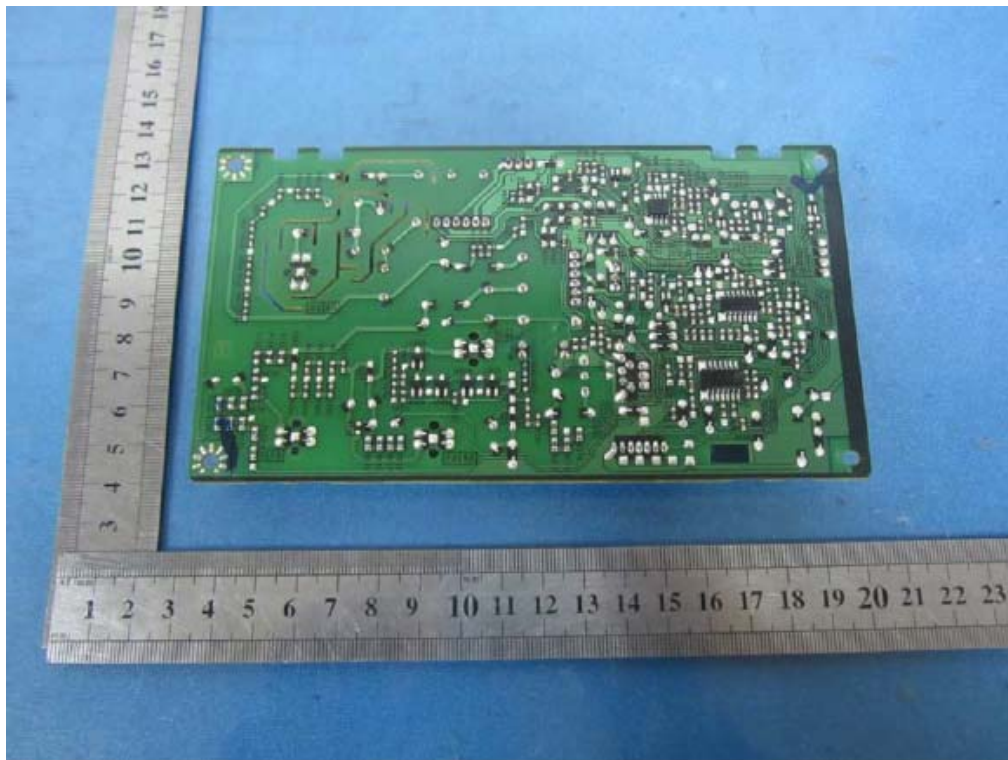


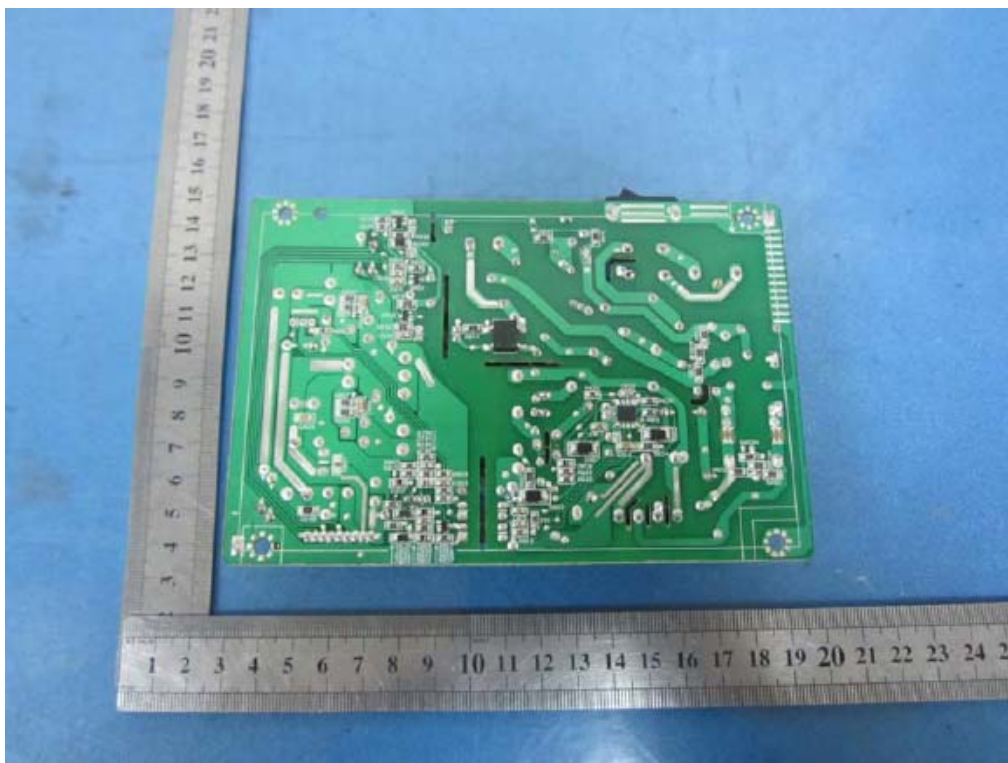


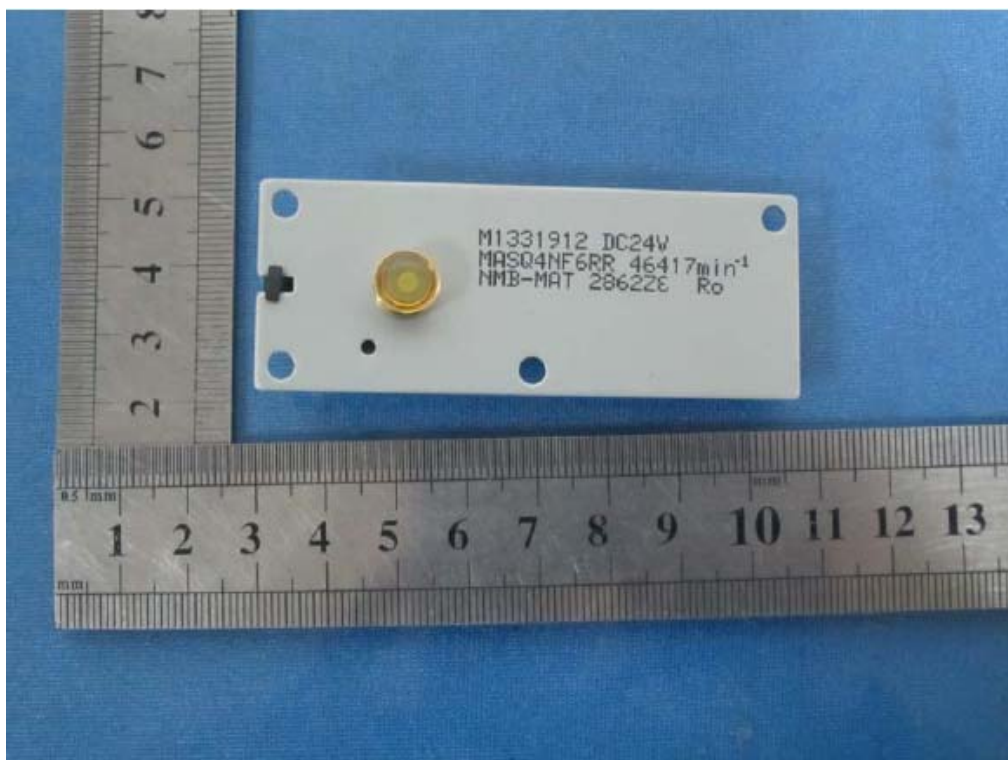
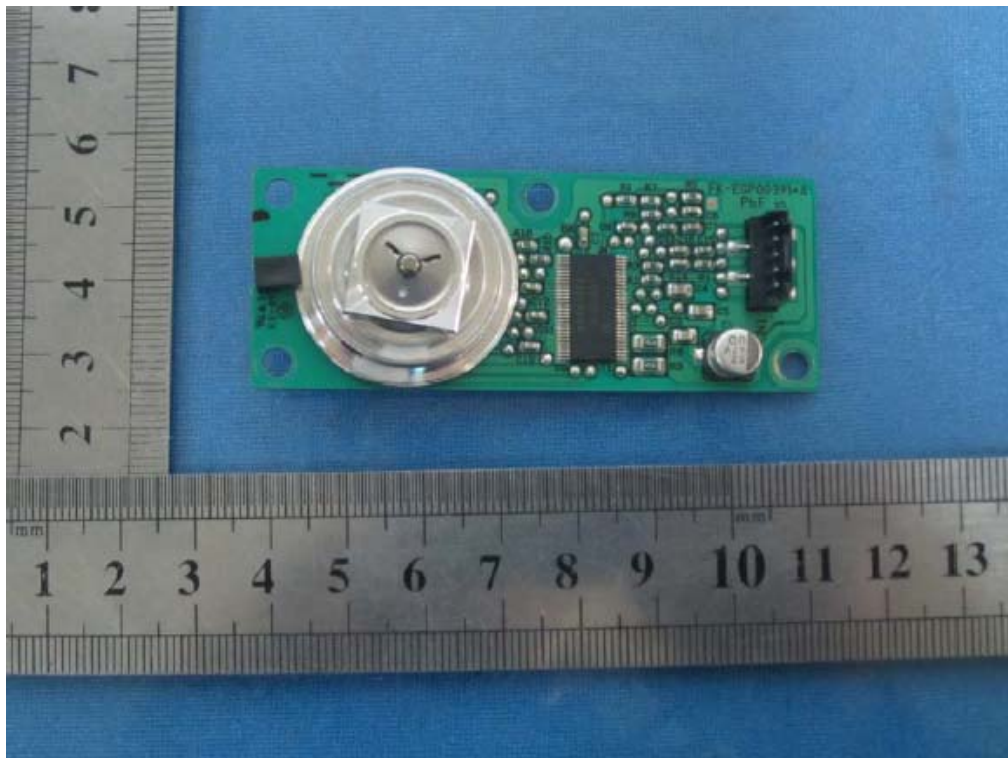


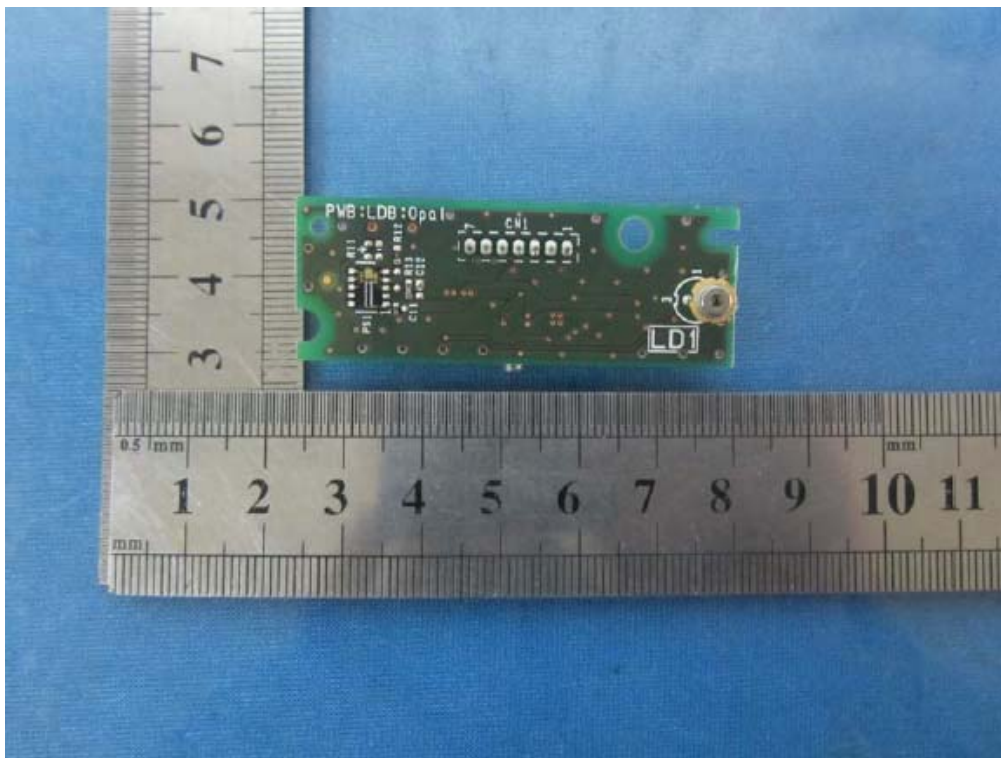
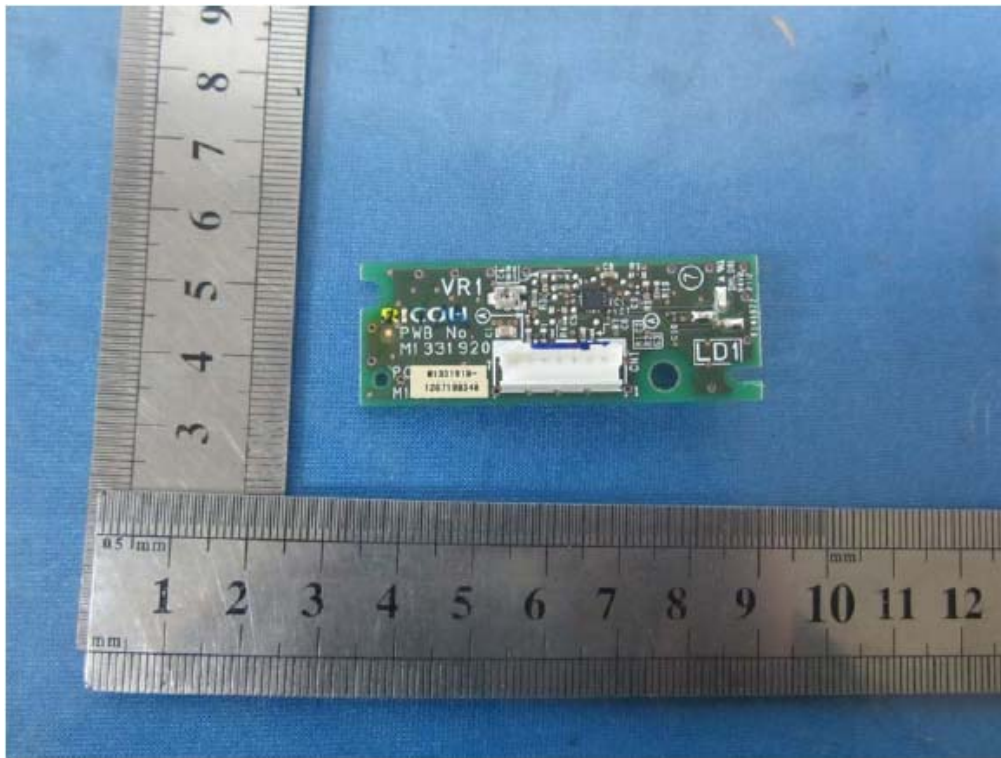






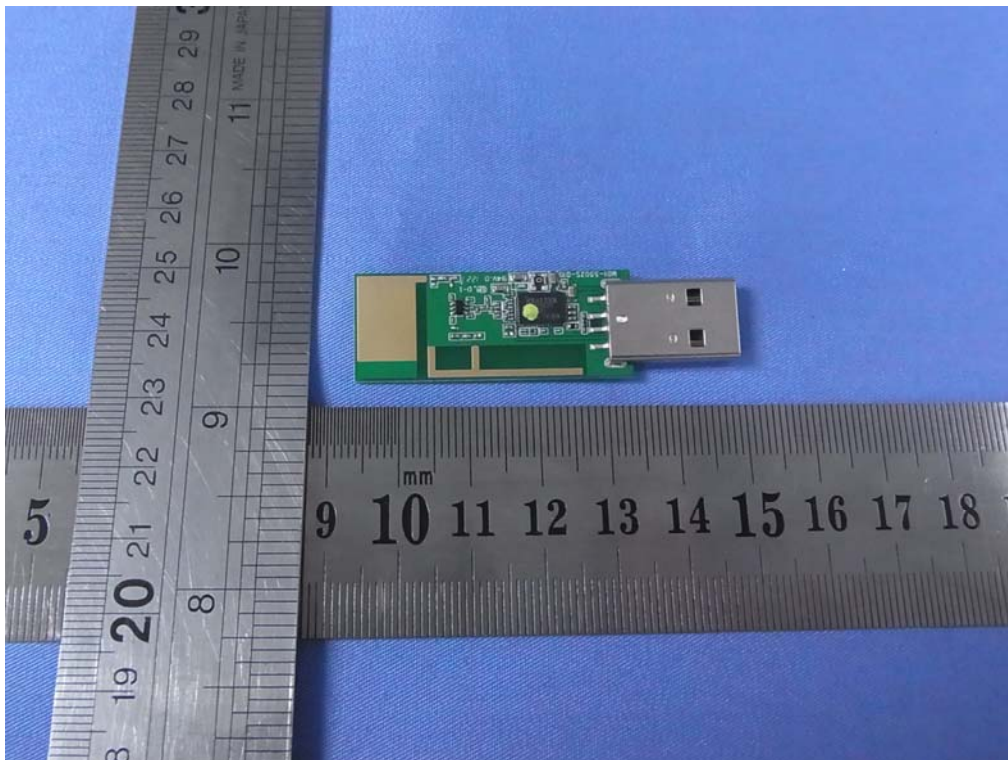
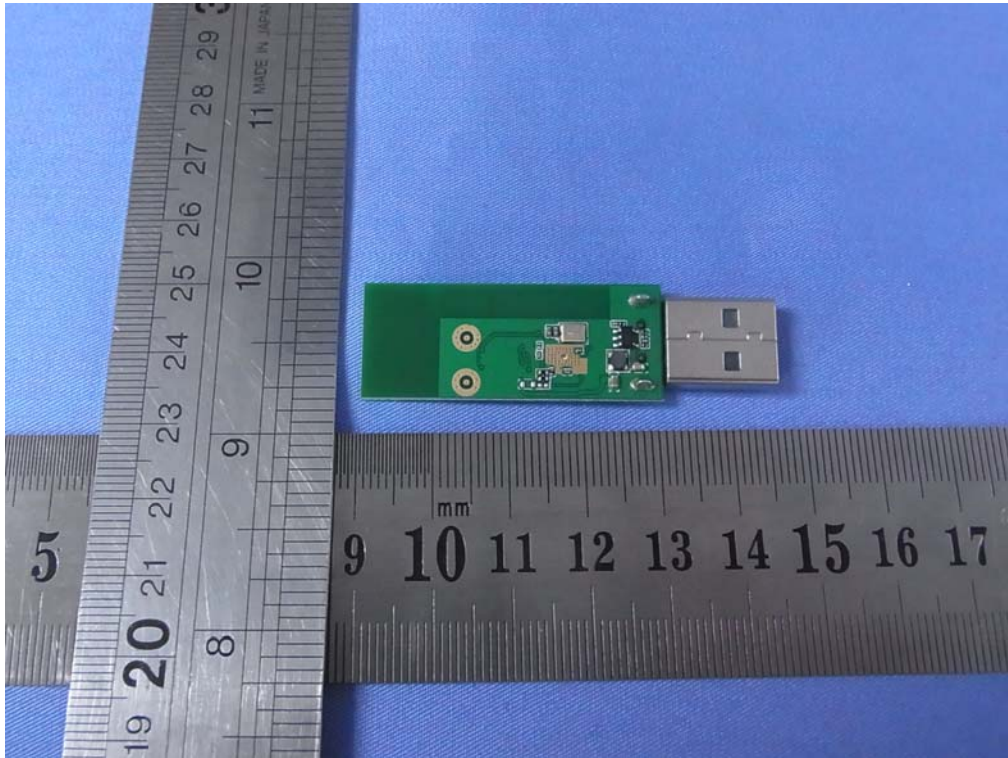












.....End of Report.....