



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.....: WE10120001
 FCC ID.....: BBP-PRSP34101
 Compiled by
 (position+printed name+signature)...: File administrator May Hu
 Supervised by
 (position+printed name+signature)...: Technique principal Tong Jiang
 Approved by
 (position+printed name+signature)...: Manager Jimmy Li
 Date of issue.....: Dec 17, 2010
 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

May Hu
Tong Jiang
Jimmy Li

Applicant's name.....: Ricoh Company Ltd
 Address.....: 810, Shimoimaizum, Ebina-Shi, Kanagawa-ken, 243-0460 Japan

Test specification:
 Standard.....: 47 CFR FCC Part 15 Subpart B (Class B) ANSI C63.4: 2009
 Non-standard test method.....: /
Test Report Form No......: HTWEMCFCC_1A
 TRF Originator.....: Shenzhen Huatongwei International Inspection Co., Ltd
 Master TRF.....: Dated 2006-06

Shenzhen Huatongwei International Inspection Co., Ltd. All rights reserved.
 This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Huatongwei International Inspection Co., Ltd is acknowledged as copyright owner and source of the material. Shenzhen Huatongwei International Inspection Co., Ltd takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test item description.....: Laser Printer
 Trade Mark.....: /
 Manufacturer.....: RICOH COMPONENTS ASIA (SHEN ZHEN)CO.,LTD
 Model/Type reference.....: Aficio SP 3400N, SP 3400N/Aficio SP 3400N, Aficio SP 3410DN, SP 3410DN/Aficio SP 3410DN
 Listed Model.....: /
 Ratings.....: 120V 60Hz 10A 850W
 Result.....: Positive

EMC -- TEST REPORT

Test Report No. : WE10120001	Dec 17, 2010 <hr style="border: 0; border-top: 1px solid black; margin: 0;"/> Date of issue
--	--

Equipment under Test : Laser Printer

Model / Type : Aficio SP 3400N, SP 3400N/Aficio SP 3400N, Aficio SP 3410DN, SP 3410DN/Aficio SP 3410DN

Listed Model : /

Applicant : Ricoh Company Ltd

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

Manufacturer : RICOH COMPONENTS ASIA (SHEN ZHEN)CO.,LTD

Address : Block 2 RICOH industry group, Hao Ye Road, Heping Community, Fuyong Town, Baoan Distrist, Shenzhen, Guangdong, China 518026

Test Result according to the standards on page 4:	Positive
--	-----------------

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.

Contents

- 1. **TEST STANDARDS 4**

- 2. **SUMMARY 4**
 - 2.1. General Remarks: 4
 - 2.2. Equipment under Test 4
 - 2.3. Short description of the Equipment under Test (EUT) 4
 - 2.4. EUT operation mode: 4
 - 2.5. EUT configuration 5
 - 2.6. Cables used 5

- 3. **TEST ENVIRONMENT 6**
 - 3.1. Address of the test laboratory 6
 - 3.2. Test Facility 6
 - 3.3. Environmental conditions 7
 - 3.4. Test Description 7
 - 3.5. Statement of the measurement uncertainty 7
 - 3.6. Equipments Used during the Test 8

- 4. **TEST CONDITIONS AND RESULTS 9**
 - 4.1. Radiated Emission 9
 - 4.2. Conducted Disturbance 24

- 5. **INTERNAL PHOTOS OF THE ADDING SUPPLY POWER BOARD 32**
 - 5.1. Internal photos of the adding Power Supply Board 32

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 : Dec 08, 2010

Testing commenced on : Dec 08, 2010

Testing concluded on : Dec 17, 2010

Note: The test report adds the Conducted Emission and Radiated Emission test results based on the Test Report No.:TRE09090026.

2.2. Equipment under Test

Power supply system utilised

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

AC 120V/60Hz

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

The EUT is a Laser Printer, models Aficio SP 3400N, SP 3400N/Aficio SP 3400N were similar to Models Aficio SP 3410DN, SP 3410DN/Aficio SP 3410DN, except Models Aficio SP 3410DN, SP 3410DN/Aficio SP 3410DN employed additional Duplex motor for duplex side printing function.

Series number: Prototype

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

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

- - supplied by the manufacturer
- - supplied by the lab

- Option for EUT

Manufacturer : RICOH
 M/N : Paper Feed Unit TK1080
 S/N : M3551700001

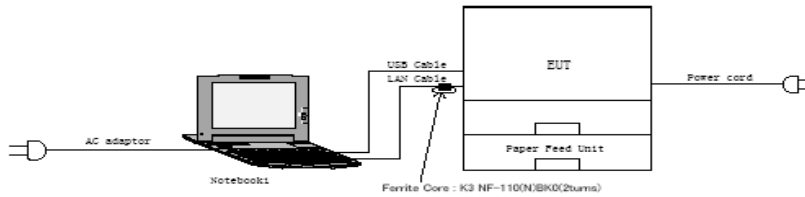
- Notebook

Manufacturer : Lenovo
 M/N : ThinkPad T400
 S/N : L3-ACC2K 08/10

- Adaptor

Manufacturer : ASTEC
 Model No. : 92P1103

Photos of the EUT configuration:



2.6. Cables used

Cable Name	Length	Shielded	Ferrite	Maker
AC cable	2m	No	No	Volex
NIC Cable(LAN Cable)	3m	No	K3 NF-110(N)BK0	Black Box
USB cable	2m	Yes	No	RICOH

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: March 30, 2009. Valid time is until March 29, 2012.

A2LA-Lab Cert. No. 2243.01

Shenzhen Huatongwei International Inspection Co., Ltd, EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until Sept 30, 2011.

FCC-Registration No.: 662850

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

IC-Registration No.: 5377A

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on February 13, 2011.

ACA

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

NEMKO-Aut. No.: ELA125

Shenzhen Huatongwei International Inspection Co., Ltd has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10, the authorization is valid through 07.July 2011.

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.: R-2484. Date of Registration: December 20, 2009. Valid time is until December 19, 2012.

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: December 20, 2009. Valid time is until December 19, 2012.

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

IECEE CB

Shenzhen Huatongwei International Inspection Co Ltd has been assessed and determined to fully comply with the requirements of ISO/IEC 17025: 2005-05, The Basic Rules, IECEE 01: 2008-11 and Rules of Procedure IECEE 02: 2008-10, and the relevant IECEE CB-Scheme Operational Documents. It is therefore entitled to operate as a CB Testing Laboratory under the responsibility of Nemko A/S. This certificate remains valid until December 3rd 2012 at which time it will be reissued by the IECEE Executive Secretary upon successful completion of the normally scheduled 3-year Reassessment Program administered by the IECEE CB Scheme.

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 24, Aug, 2013.

3.3. Environmental conditions

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

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

3.4. Test Description

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

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

3.5. Statement of the measurement uncertainty

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

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

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	$\pm 4.24\text{dB}$	(1)
Radiated Emission	1G~7.5G	$\pm 5.16\text{dB}$	(1)
Conducted Disturbance	0.15~30 MHz	$\pm 3.39\text{dB}$	(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	2010/05/30
2	EMI TEST RECEIVER	Rohde & Schwarz	ESI 26	100009	2010/10/24
3	RF TEST PANEL	Rohde & Schwarz	TS / RSP	335015/ 0017	2010/10/24
4	TURNTABLE	ETS	2088	2149	2010/10/24
5	ANTENNA MAST	ETS	2075	2346	2010/10/24
6	EMI SOFTWARE TEST	Rohde & Schwarz	ESK1	N/A	2010/10/24
7	Double-Ridged-Waveguide Horn Antenna	Rohde & Schwarz	HF906	100039	2010/10/24
8	Semi-anechoic chamber	ETS-LINDGREN	AJ 593 HTW	N/A	2009/05/30

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	Rohde & Schwarz	ESCS30	100038	2010/10/24
2	Artificial Mains	Rohde & Schwarz	ESH2-Z5	100028	2010/10/24
3	Artificial Mains	Rohde & Schwarz	ESH3-Z5	100040	2010/10/24
4	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100044	2010/10/24
5	EMI Test Software	Rohde & Schwarz	ESK1	N/A	2010/10/24
6	3# shielded room	ETS-LINDGREN	RFD-100	2406	N/A

4. TEST CONDITIONS AND RESULTS

4.1. Radiated Emission

For test instruments and accessories used see section 3.6.

4.1.1. Description of the test location

Test location: Shielded room No. 4

4.1.2. Limits of disturbance

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dBμV/m)
30 ~ 88	3	40
88~216	3	43.5
216 ~ 960	3	46
Above 960	3	74

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.

4.1.3. Description of the test set-up

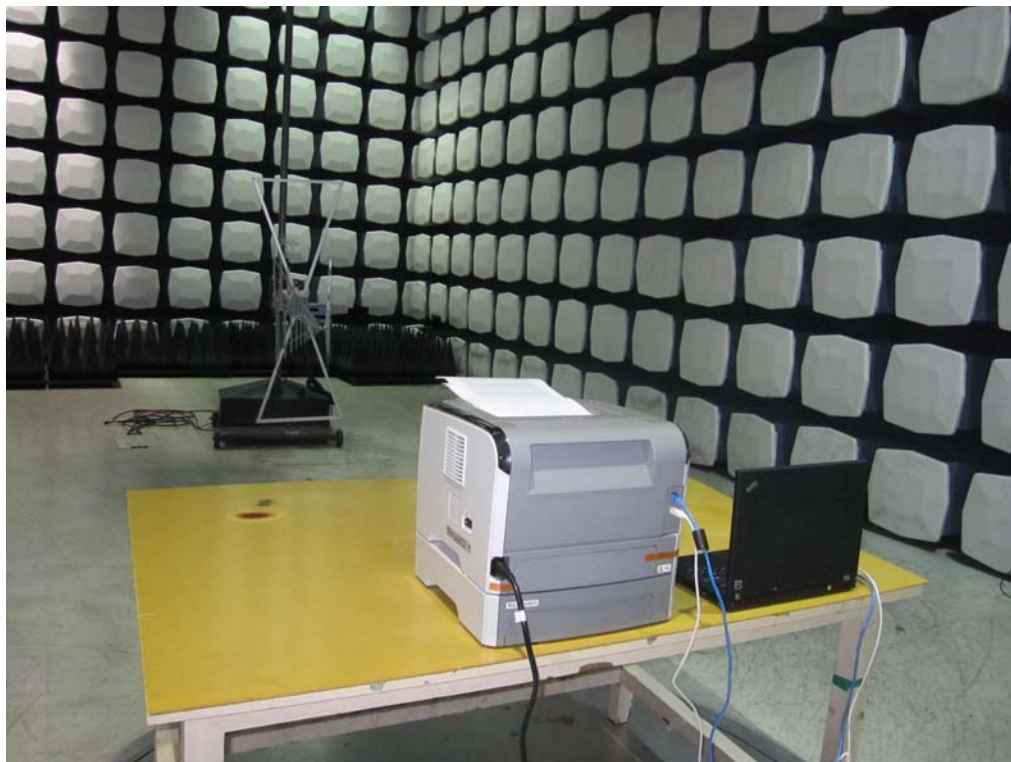
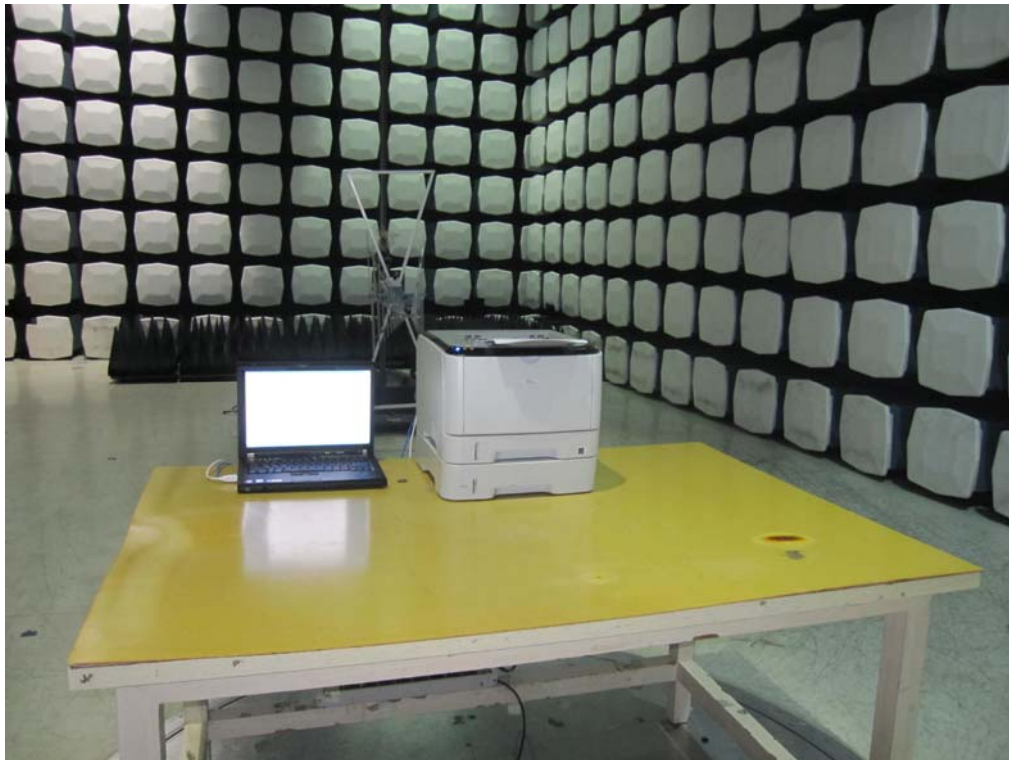
4.1.3.1. Operating Condition

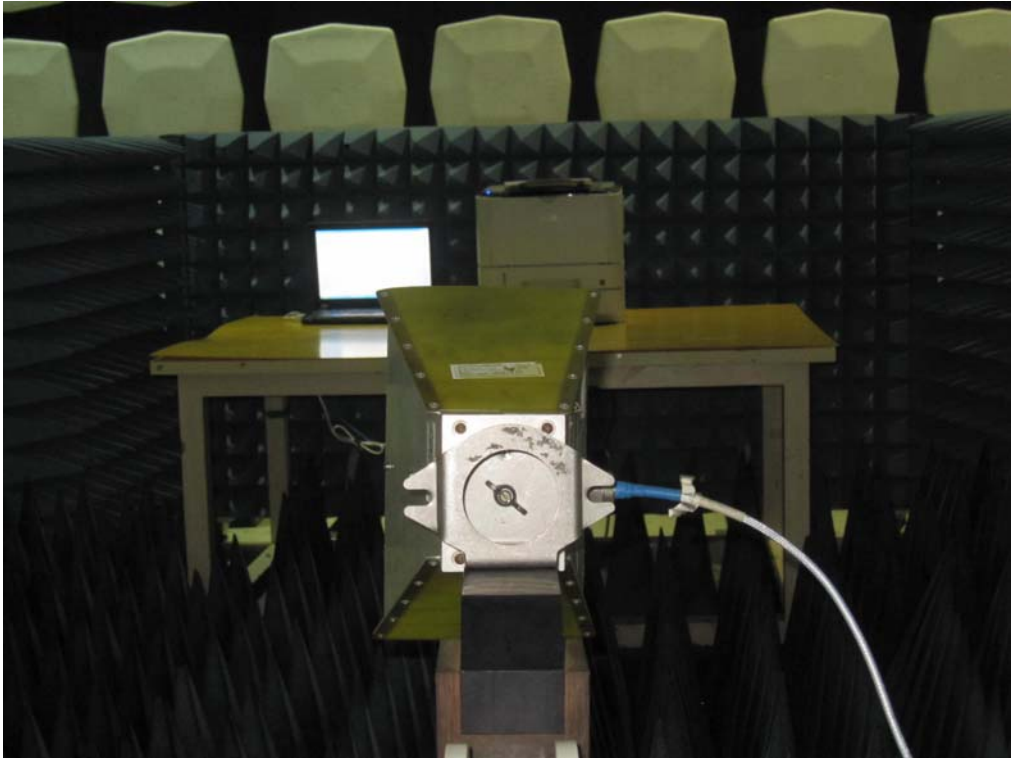
The EUT is set to work that shall be carried out respectively standby, USB print and NIC print modes during the test and the results of the maximum emanation are recorded.

4.1.3.2. Test Configuration and Procedure

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

4.1.3.3. Photos of the test set-up





4.1.4. Test result

The requirements are **Fulfilled**

Band Width: 120 KHz

Frequency Range: 30MHz to 1000MHz

Band Width: 1MHz

Frequency Range: 1G-2G

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

Margin=limit-level

Level=read value+transducer

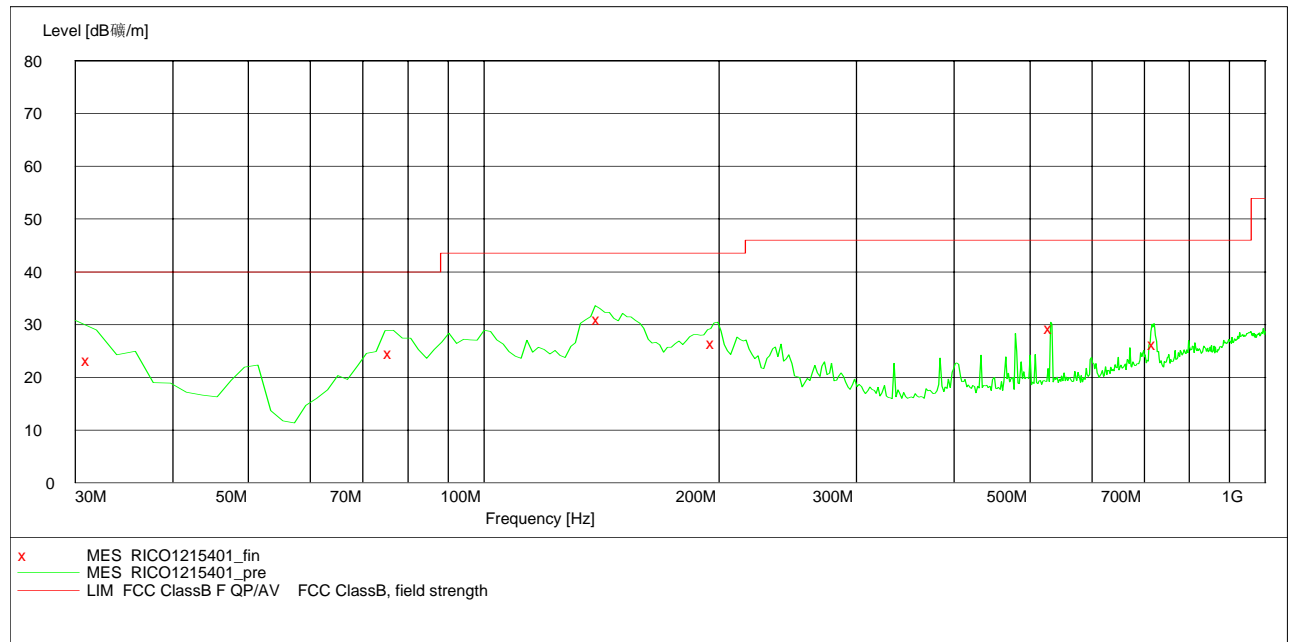
Transducer=antenna factor+pre-amplifier factor+cable loss (with 6db attenuator)

For 30MHz-1000MHz

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
Standby	140.58	31.00	Vertical	43.50	-21.20	12.50	100	267	QP
Test Results				Pass					

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

Short Description: Field Strength (30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 2011



MEASUREMENT RESULT: "RICO1215401_fin"

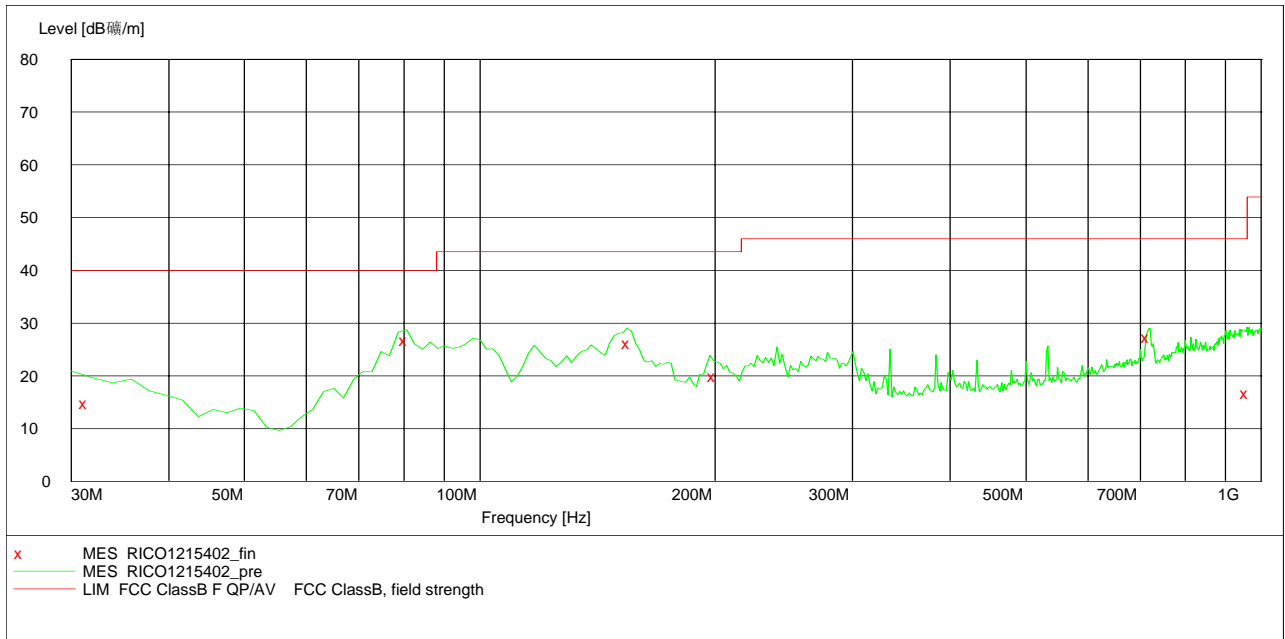
12/15/2010 7:45PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
31.260000	23.20	-10.8	40.0	16.8	QP	100.0	98.00	VERTICAL
76.200000	24.50	-23.1	40.0	15.5	QP	143.0	300.00	VERTICAL
140.580000	31.00	-21.2	43.5	12.5	QP	100.0	267.00	VERTICAL
196.920000	26.40	-21.5	43.5	17.1	QP	100.0	73.00	VERTICAL
532.920000	29.30	-13.9	46.0	16.7	QP	100.0	0.00	VERTICAL
723.060000	26.30	-10.6	46.0	19.7	QP	114.0	213.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
Standby	80.58	26.80	Horizontal	40.00	-22.50	13.20	314	210	QP
Test Results				Pass					

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

Short Description: Field Strength (30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 2011



MEASUREMENT RESULT: "RICO1215402_fin"

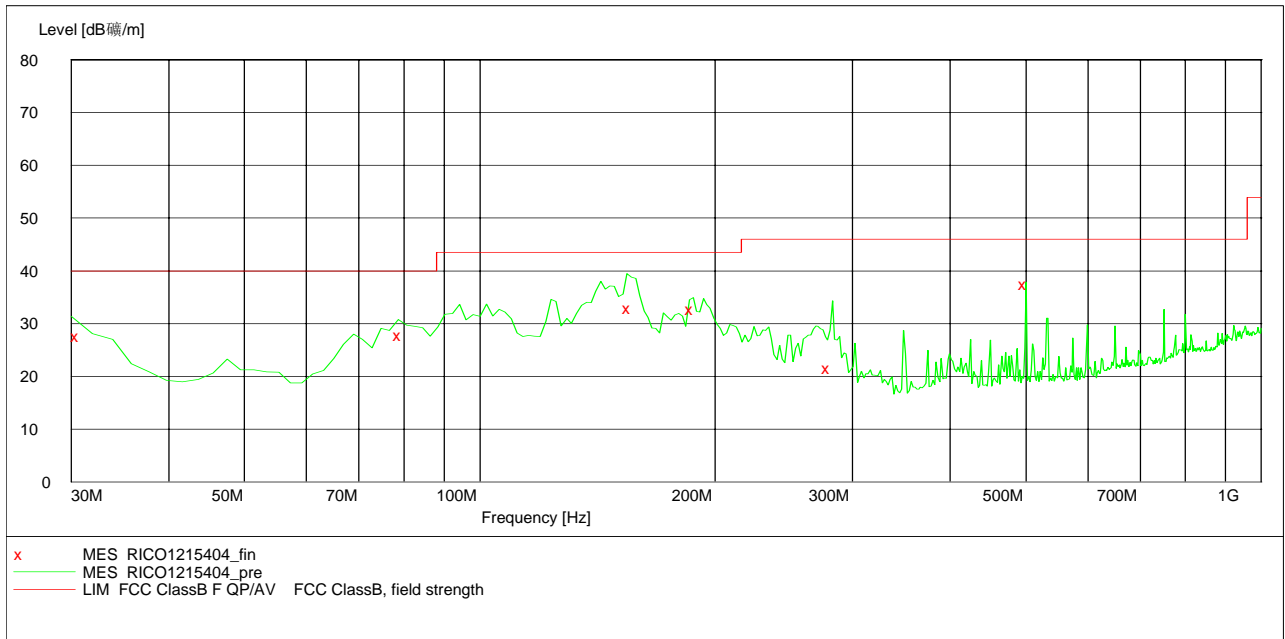
12/15/2010 7:55PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
31.380000	14.80	-10.9	40.0	25.2	QP	281.0	197.00	HORIZONTAL
80.580000	26.80	-22.5	40.0	13.2	QP	314.0	210.00	HORIZONTAL
155.400000	26.10	-22.7	43.5	17.4	QP	134.0	207.00	HORIZONTAL
199.860000	19.90	-21.4	43.5	23.6	QP	130.0	317.00	HORIZONTAL
717.960000	27.30	-10.6	46.0	18.7	QP	114.0	202.00	HORIZONTAL
961.680000	16.60	-5.4	53.9	37.3	QP	119.0	22.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
NIC Print	499.98	37.40	Vertical	46.00	-14.30	8.60	100	297	QP
Test Results				Pass					

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

Short Description: Field Strength (30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 2011



MEASUREMENT RESULT: "RICO1215404_fin"

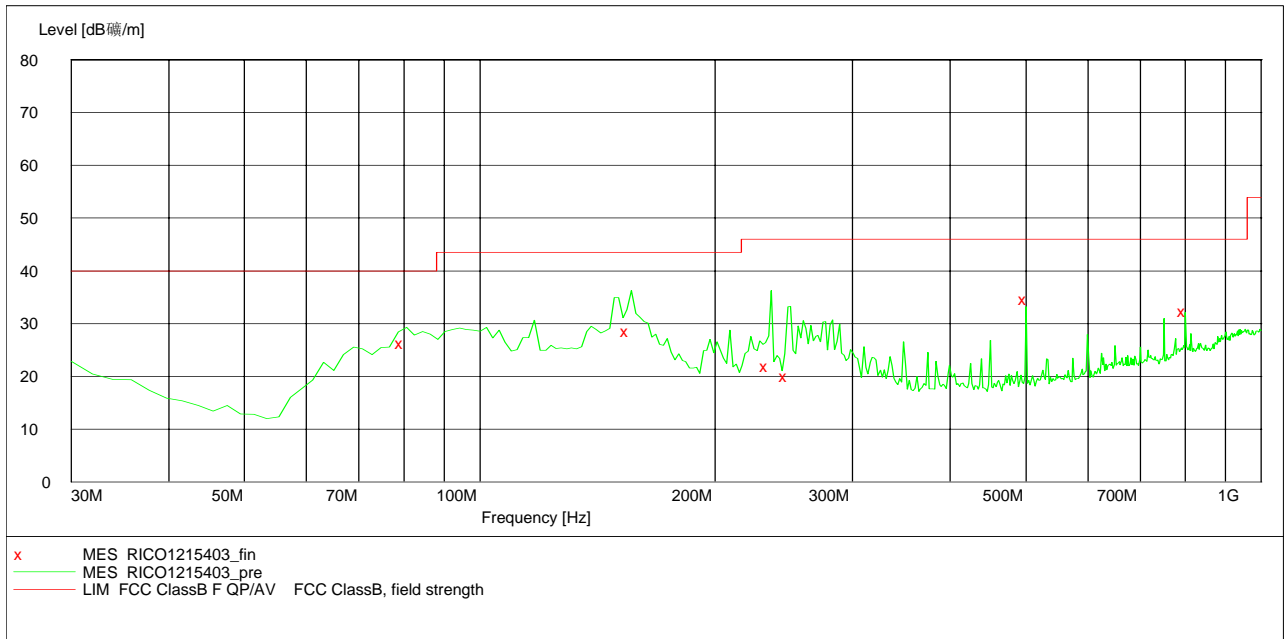
12/15/2010 8:16PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.600000	27.60	-10.5	40.0	12.4	QP	100.0	18.00	VERTICAL
79.200000	27.70	-22.7	40.0	12.3	QP	118.0	286.00	VERTICAL
155.640000	32.90	-22.7	43.5	10.6	QP	118.0	141.00	VERTICAL
187.320000	32.80	-22.3	43.5	10.7	QP	100.0	211.00	VERTICAL
280.020000	21.50	-18.6	46.0	24.5	QP	147.0	141.00	VERTICAL
499.980000	37.40	-14.3	46.0	8.6	QP	100.0	297.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
NIC Print	499.98	34.60	Horizontal	46.00	-14.30	11.40	114	197	QP
Test Results				Pass					

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

Short Description: Field Strength (30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 2011



MEASUREMENT RESULT: "RICO1215403_fin"

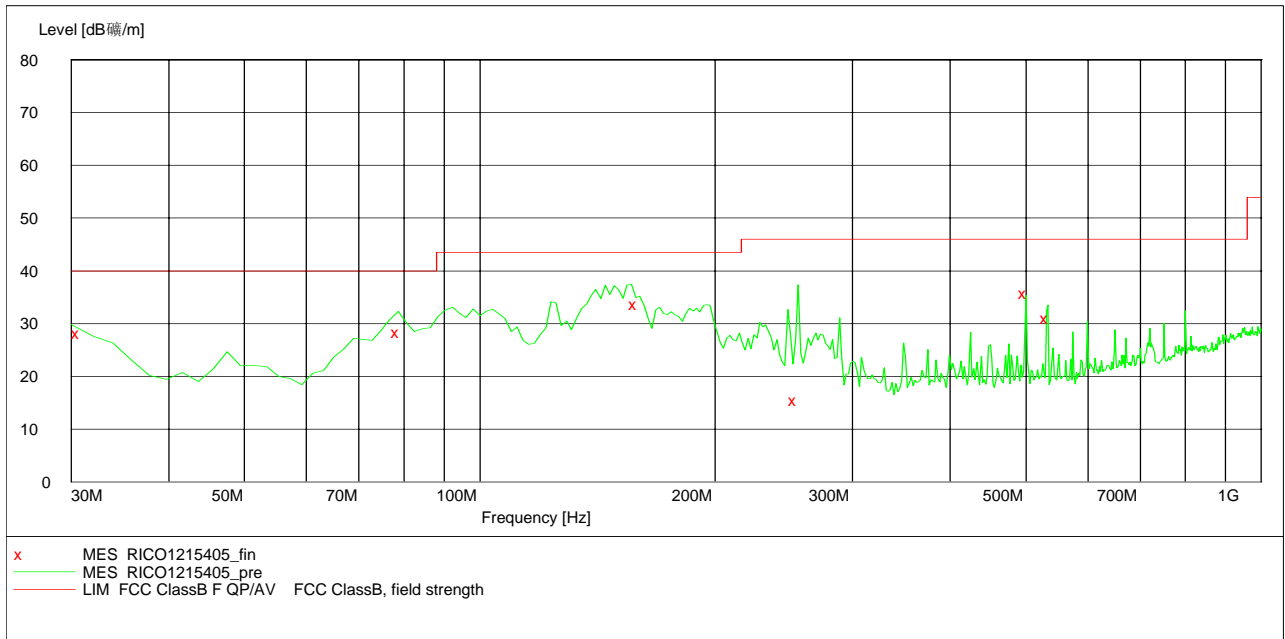
12/15/2010 8:06PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
79.740000	26.30	-22.6	40.0	13.7	QP	310.0	209.00	HORIZONTAL
154.980000	28.60	-22.6	43.5	14.9	QP	150.0	243.00	HORIZONTAL
233.580000	21.90	-20.4	46.0	24.1	QP	100.0	66.00	HORIZONTAL
247.080000	20.00	-19.9	46.0	26.0	QP	113.0	42.00	HORIZONTAL
499.980000	34.60	-14.3	46.0	11.4	QP	114.0	197.00	HORIZONTAL
799.980000	32.40	-8.8	46.0	13.6	QP	250.0	310.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
USB Print	158.580	33.70	Vertical	40.00	-23.00	9.80	100	136	QP
Test Results				Pass					

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

Short Description: Field Strength (30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 2011



MEASUREMENT RESULT: "RICO1215405_fin"

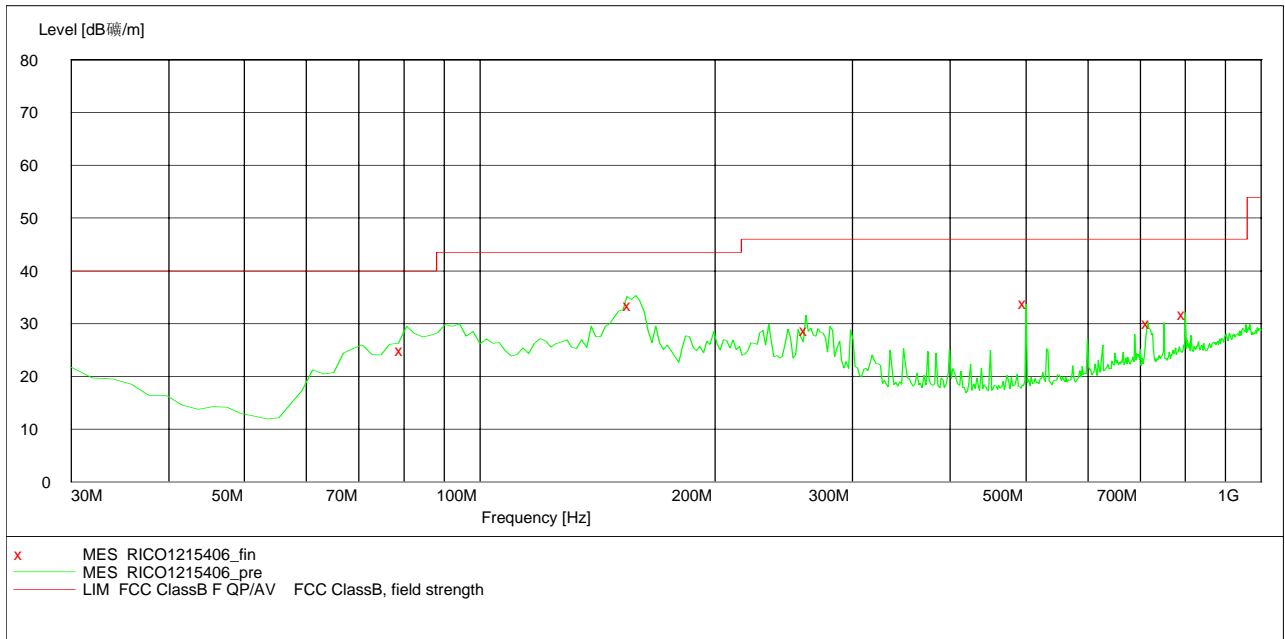
12/15/2010 8:34PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.660000	28.20	-10.5	40.0	11.8	QP	100.0	69.00	VERTICAL
78.840000	28.30	-22.7	40.0	11.7	QP	100.0	322.00	VERTICAL
158.580000	33.70	-23.0	43.5	9.8	QP	100.0	136.00	VERTICAL
254.100000	15.50	-19.9	46.0	30.5	QP	100.0	138.00	VERTICAL
499.980000	35.80	-14.3	46.0	10.2	QP	100.0	290.00	VERTICAL
532.860000	31.00	-13.9	46.0	15.0	QP	100.0	331.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
USB Print	156.06	33.50	Horizontal	43.50	-22.70	10.0	150	222	QP
Test Results				Pass					

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

Short Description: Field Strength (30M-1G)
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 2011



MEASUREMENT RESULT: "RICO1215406_fin"

12/15/2010 8:45PM

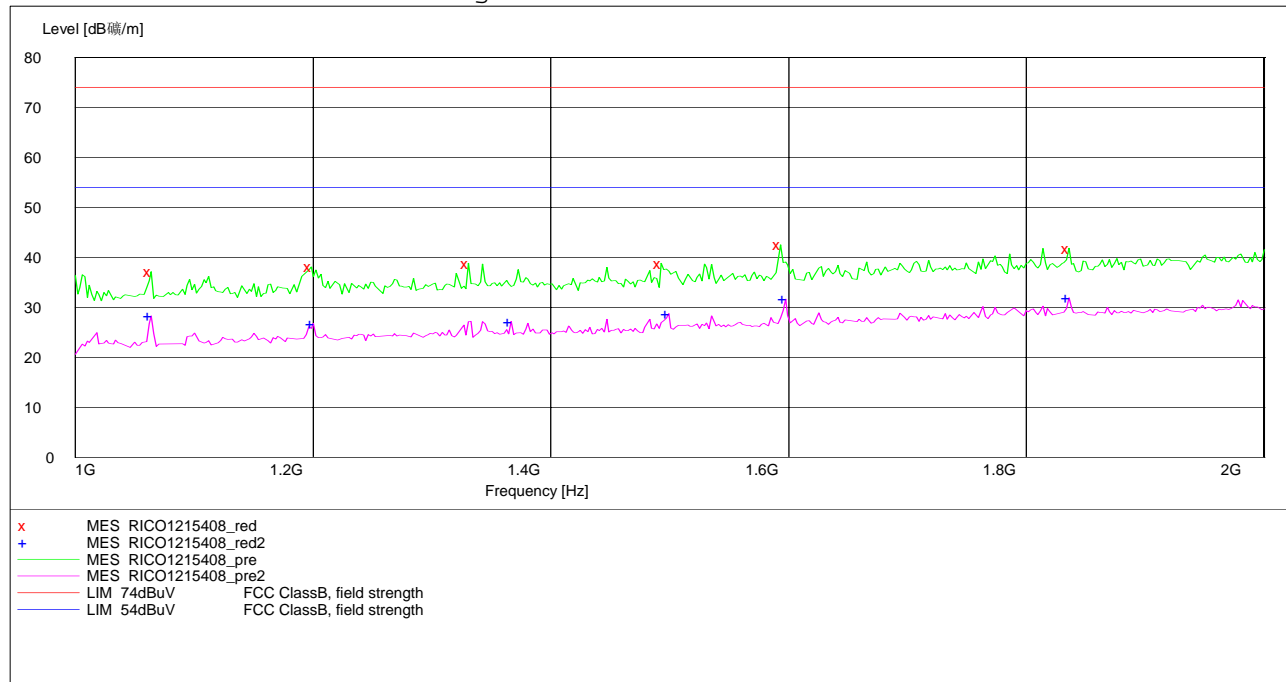
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
79.680000	24.90	-22.6	40.0	15.1	QP	250.0	183.00	HORIZONTAL
156.060000	33.50	-22.7	43.5	10.0	QP	150.0	222.00	HORIZONTAL
262.260000	28.70	-19.8	46.0	17.3	QP	100.0	284.00	HORIZONTAL
499.980000	33.90	-14.3	46.0	12.1	QP	100.0	199.00	HORIZONTAL
719.160000	30.10	-10.6	46.0	15.9	QP	123.0	200.00	HORIZONTAL
799.980000	31.70	-8.8	46.0	14.3	QP	100.0	177.00	HORIZONTAL

For 1000MHz-200MHz

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m) (AV Detector)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
Standby	1593.59	42.50	Vertical	54.00	-5.00	11.50	100	3.00	Peak
Test Results				Pass					

SWEEP TABLE: "test (1G-18G) P"

Short Description: EN 55022 Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average



MEASUREMENT RESULT: "RICO1215408_red"

12/15/2010 9:07PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1064.128257	37.10	-9.2	74.0	36.9	Peak	100.0	3.00	VERTICAL
1198.396794	38.10	-8.1	74.0	35.9	Peak	100.0	195.00	VERTICAL
1330.661323	38.80	-7.1	74.0	35.2	Peak	100.0	325.00	VERTICAL
1492.985972	38.80	-6.0	74.0	35.2	Peak	100.0	325.00	VERTICAL
1593.186373	42.50	-5.0	74.0	31.5	Peak	100.0	3.00	VERTICAL
1835.671343	41.80	-2.8	74.0	32.2	Peak	100.0	297.00	VERTICAL

MEASUREMENT RESULT: "RICO1215408_red2"

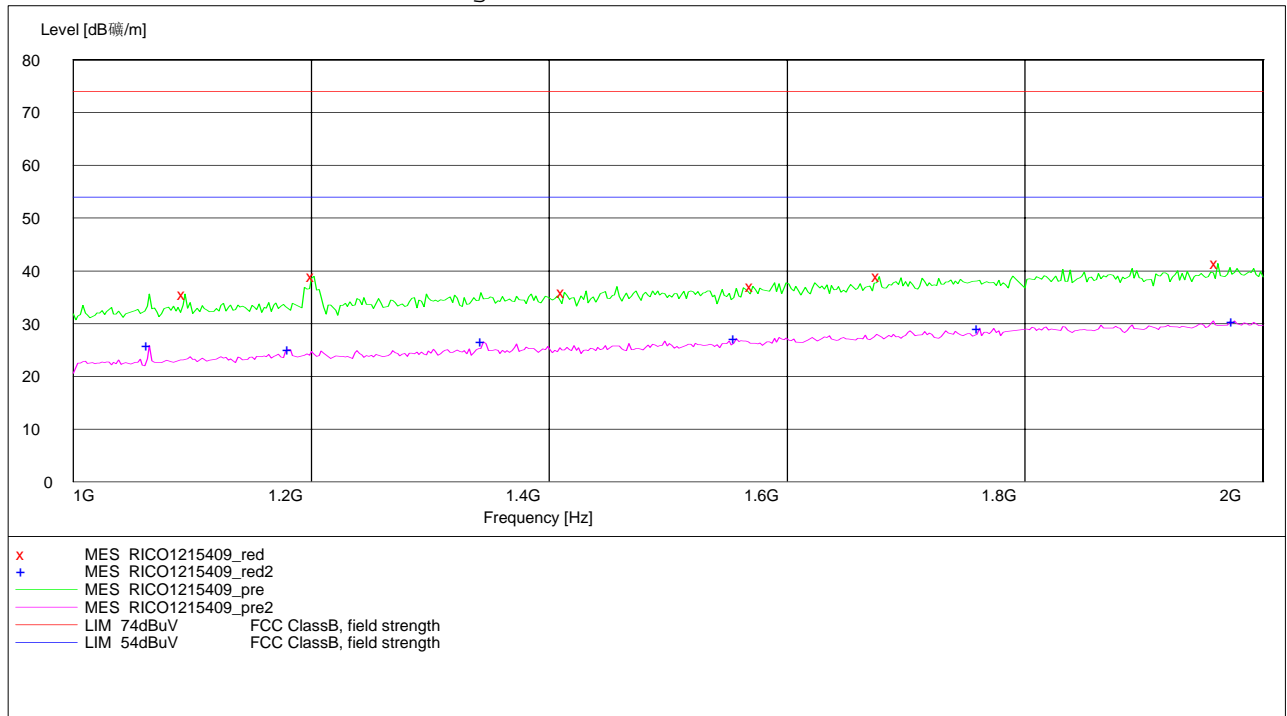
12/15/2010 9:07PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1064.128257	28.30	-9.2	54.0	25.7	AV	100.0	3.00	VERTICAL
1200.400802	26.80	-8.1	54.0	27.2	AV	100.0	195.00	VERTICAL
1366.733467	27.20	-6.8	54.0	26.8	AV	100.0	3.00	VERTICAL
1498.997996	28.70	-6.0	54.0	25.3	AV	100.0	317.00	VERTICAL
1597.194389	31.70	-5.0	54.0	22.3	AV	100.0	3.00	VERTICAL
1835.671343	31.90	-2.8	54.0	22.1	AV	100.0	297.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m) (AV Detector)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
Standby	1961.92	41.40	Horizontal	54.00	-1.70	12.60	100	287	Peak
Test Results				Pass					

SWEEP TABLE: "test (1G-18G) P"

Short Description: EN 55022 Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average



MEASUREMENT RESULT: "RICO1215409_red"

12/15/2010 9:10PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1094.188377	35.60	-9.0	74.0	38.4	Peak	100.0	272.00	HORIZONTAL
1202.404810	38.90	-8.1	74.0	35.1	Peak	100.0	137.00	HORIZONTAL
1412.825651	36.00	-6.5	74.0	38.0	Peak	100.0	209.00	HORIZONTAL
1571.142285	37.10	-5.3	74.0	36.9	Peak	100.0	13.00	HORIZONTAL
1677.354709	38.90	-4.2	74.0	35.1	Peak	100.0	137.00	HORIZONTAL
1961.923848	41.40	-1.7	74.0	32.6	Peak	100.0	287.00	HORIZONTAL

MEASUREMENT RESULT: "RICO1215409_red2"

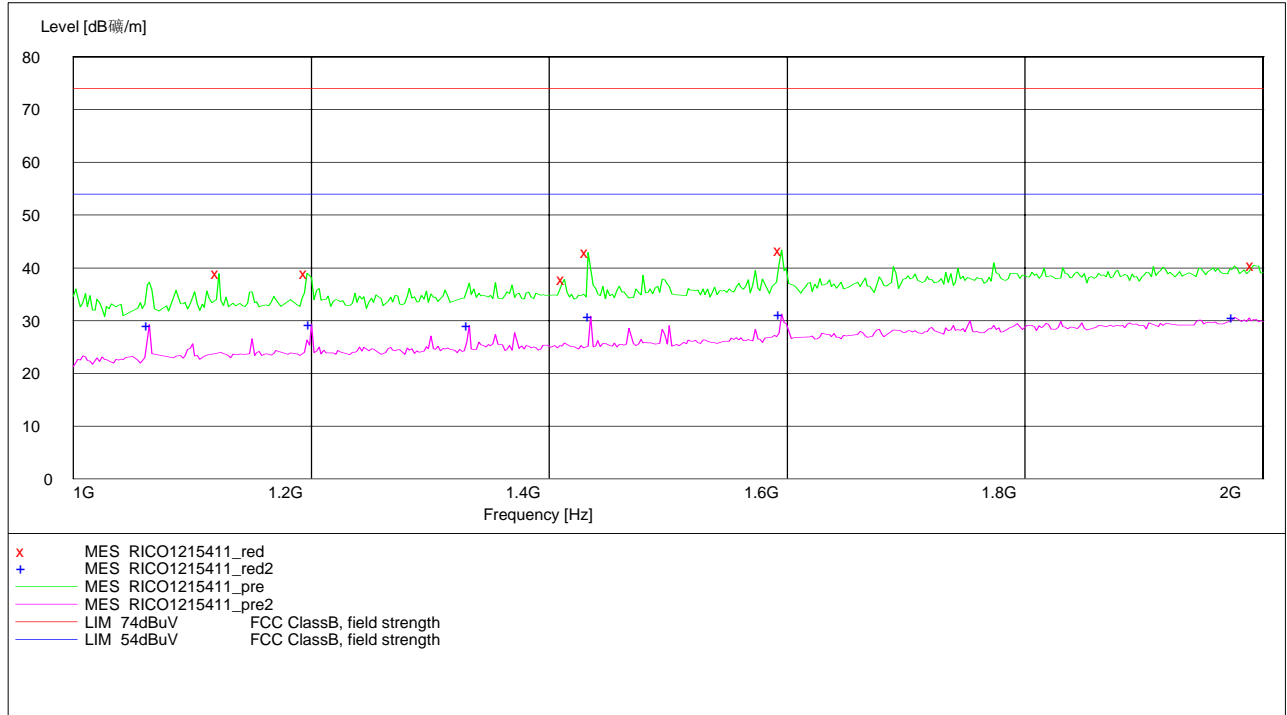
12/15/2010 9:10PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1064.128257	25.90	-9.2	54.0	28.1	AV	100.0	287.00	HORIZONTAL
1182.364729	25.10	-8.2	54.0	28.9	AV	100.0	244.00	HORIZONTAL
1344.689379	26.60	-7.0	54.0	27.4	AV	100.0	221.00	HORIZONTAL
1557.114228	27.20	-5.4	54.0	26.8	AV	100.0	345.00	HORIZONTAL
1761.523046	29.20	-3.4	54.0	24.8	AV	100.0	264.00	HORIZONTAL
1975.951904	30.50	-1.6	54.0	23.5	AV	100.0	144.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m) (AV Detector)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
NIC Print	1595.19	43.54	Vertical	54.00	-5.00	10.60	100	182	Peak
Test Results				Pass					

SWEEP TABLE: "test (1G-18G) P"

Short Description: EN 55022 Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average



MEASUREMENT RESULT: "RICO1215411_red"

12/15/2010 9:20PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1122.244489	38.90	-8.7	74.0	35.1	Peak	100.0	13.00	VERTICAL
1196.392786	39.00	-8.1	74.0	35.0	Peak	100.0	210.00	VERTICAL
1412.825651	37.80	-6.5	74.0	36.2	Peak	100.0	191.00	VERTICAL
1432.865731	42.90	-6.4	74.0	31.1	Peak	100.0	175.00	VERTICAL
1595.190381	43.40	-5.0	74.0	30.6	Peak	100.0	182.00	VERTICAL
1991.983968	40.50	-1.5	74.0	33.5	Peak	100.0	205.00	VERTICAL

MEASUREMENT RESULT: "RICO1215411_red2"

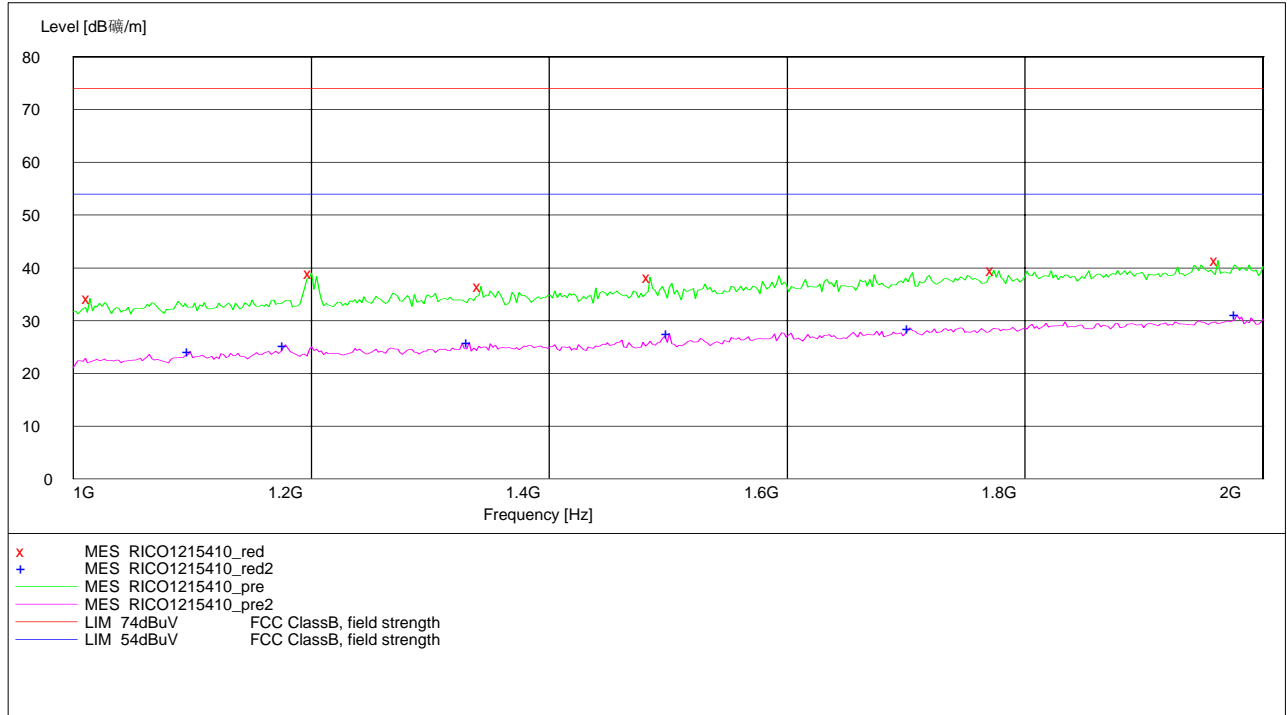
12/15/2010 9:20PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1064.128257	29.20	-9.2	54.0	24.8	AV	100.0	0.00	VERTICAL
1200.400802	29.40	-8.1	54.0	24.6	AV	100.0	13.00	VERTICAL
1332.665331	29.10	-7.1	54.0	24.9	AV	100.0	13.00	VERTICAL
1434.869739	30.90	-6.4	54.0	23.1	AV	100.0	175.00	VERTICAL
1595.190381	31.20	-5.0	54.0	22.8	AV	100.0	182.00	VERTICAL
1975.951904	30.70	-1.6	54.0	23.3	AV	100.0	83.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m) (AV Detector)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
NIC Print	1961.93	41.40	Horizontal	54.00	-1.70	12.60	100	48	Peak
Test Results				Pass					

SWEEP TABLE: "test (1G-18G) P"

Short Description: EN 55022 Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average



MEASUREMENT RESULT: "RICO1215410_red"

12/15/2010 9:18PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1014.028056	34.20	-9.7	74.0	39.8	Peak	100.0	208.00	HORIZONTAL
1200.400802	39.00	-8.1	74.0	35.0	Peak	100.0	241.00	HORIZONTAL
1342.685371	36.50	-7.0	74.0	37.5	Peak	100.0	269.00	HORIZONTAL
1484.969940	38.20	-6.1	74.0	35.8	Peak	100.0	309.00	HORIZONTAL
1773.547094	39.60	-3.3	74.0	34.4	Peak	100.0	48.00	HORIZONTAL
1961.923848	41.40	-1.7	74.0	32.6	Peak	100.0	249.00	HORIZONTAL

MEASUREMENT RESULT: "RICO1215410_red2"

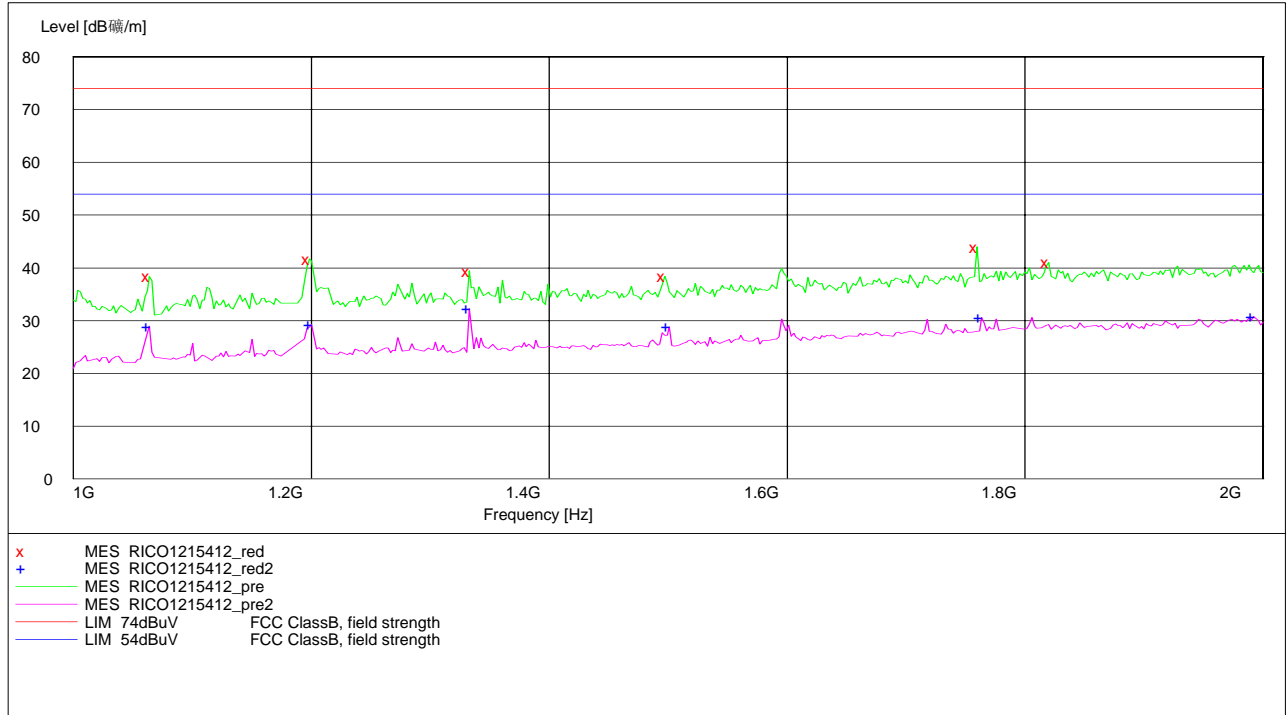
12/15/2010 9:18PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1098.196393	24.20	-8.9	54.0	29.8	AV	100.0	236.00	HORIZONTAL
1178.356713	25.40	-8.3	54.0	28.6	AV	100.0	228.00	HORIZONTAL
1332.665331	25.90	-7.1	54.0	28.1	AV	100.0	164.00	HORIZONTAL
1501.002004	27.60	-6.0	54.0	26.4	AV	100.0	164.00	HORIZONTAL
1703.406814	28.60	-3.9	54.0	25.4	AV	100.0	336.00	HORIZONTAL
1977.955912	31.10	-1.6	54.0	22.9	AV	100.0	236.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m) (AV Detector)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
USB Print	1759.92	44.00	Vertical	54.00	-3.40	10.00	100	355	Peak
Test Results				Pass					

SWEEP TABLE: "test (1G-18G) P"

Short Description: EN 55022 Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average



MEASUREMENT RESULT: "RICO1215412_red"

12/15/2010 9:28PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1064.128257	38.40	-9.2	74.0	35.6	Peak	100.0	355.00	VERTICAL
1198.396794	41.70	-8.1	74.0	32.3	Peak	100.0	207.00	VERTICAL
1332.665331	39.40	-7.1	74.0	34.6	Peak	100.0	355.00	VERTICAL
1496.993988	38.40	-6.0	74.0	35.6	Peak	100.0	355.00	VERTICAL
1759.519038	44.00	-3.4	74.0	30.0	Peak	100.0	355.00	VERTICAL
1819.639279	41.10	-2.9	74.0	32.9	Peak	100.0	152.00	VERTICAL

MEASUREMENT RESULT: "RICO1215412_red2"

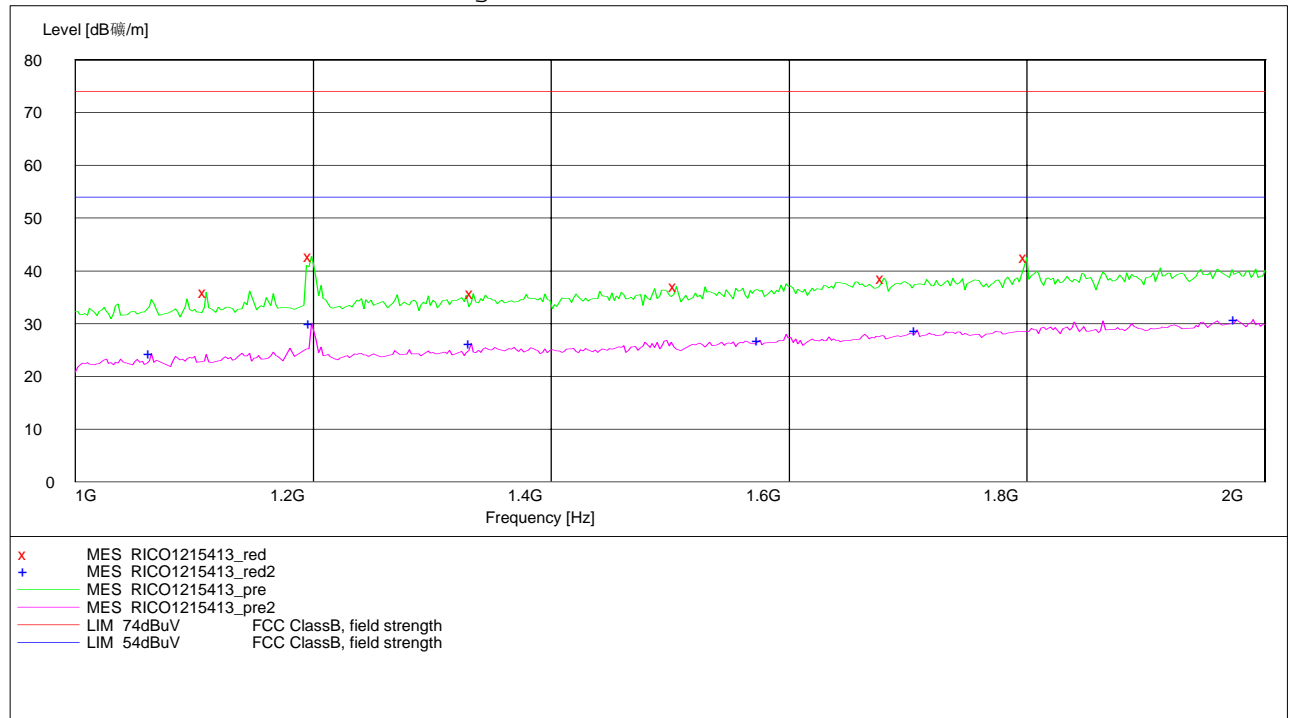
12/15/2010 9:28PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1064.128257	28.90	-9.2	54.0	25.1	AV	100.0	355.00	VERTICAL
1200.400802	29.30	-8.1	54.0	24.7	AV	100.0	207.00	VERTICAL
1332.665331	32.30	-7.1	54.0	21.7	AV	100.0	355.00	VERTICAL
1501.002004	28.90	-6.0	54.0	25.1	AV	100.0	355.00	VERTICAL
1763.527054	30.60	-3.4	54.0	23.4	AV	100.0	355.00	VERTICAL
1991.983968	30.80	-1.5	54.0	23.2	AV	100.0	180.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m) (AV Detector)	Transd (dB)	Margin (dB)	Height (cm)	Azimuth (deg)	Detector
	Frequency (MHz)	Datum (dBuV/m)							
USB Print	1198.40	42.80	Horizontal	54.00	-8.10	11.20	100	143	Peak
Test Results				Pass					

SWEEP TABLE: "test (1G-18G) P"

Short Description: EN 55022 Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average



MEASUREMENT RESULT: "RICO1215413_red"

12/15/2010 9:30PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1110.220441	35.90	-8.8	74.0	38.1	Peak	100.0	127.00	HORIZONTAL
1198.396794	42.80	-8.1	74.0	31.2	Peak	100.0	143.00	HORIZONTAL
1334.669339	35.70	-7.1	74.0	38.3	Peak	100.0	208.00	HORIZONTAL
1505.010020	37.00	-5.9	74.0	37.0	Peak	100.0	35.00	HORIZONTAL
1679.358717	38.60	-4.2	74.0	35.4	Peak	100.0	216.00	HORIZONTAL
1799.599198	42.50	-3.1	74.0	31.5	Peak	100.0	268.00	HORIZONTAL

MEASUREMENT RESULT: "RICO1215413_red2"

12/15/2010 9:30PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1064.128257	24.40	-9.2	54.0	29.6	AV	100.0	188.00	HORIZONTAL
1198.396794	30.10	-8.1	54.0	23.9	AV	100.0	143.00	HORIZONTAL
1332.665331	26.30	-7.1	54.0	27.7	AV	100.0	208.00	HORIZONTAL
1575.150301	26.90	-5.2	54.0	27.1	AV	100.0	245.00	HORIZONTAL
1707.414830	28.80	-3.9	54.0	25.2	AV	100.0	304.00	HORIZONTAL
1975.951904	30.80	-1.6	54.0	23.2	AV	100.0	79.00	HORIZONTAL

4.2. Conducted Disturbance

For test instruments and accessories used see section 3.6.

4.2.1. Description of the test location

Test location: Shielded room No. 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, USB print and NIC print modes during the test and the maximum emanating results are recorded.

4.2.3.2. Test Procedure

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

4.2.3.3. Photos of the test set-up



4.2.4. Test result

The requirements are **Fulfilled**

Band Width: 9 KHz

Frequency Range: 150 KHz to 30MHz

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

Margin=limit-level

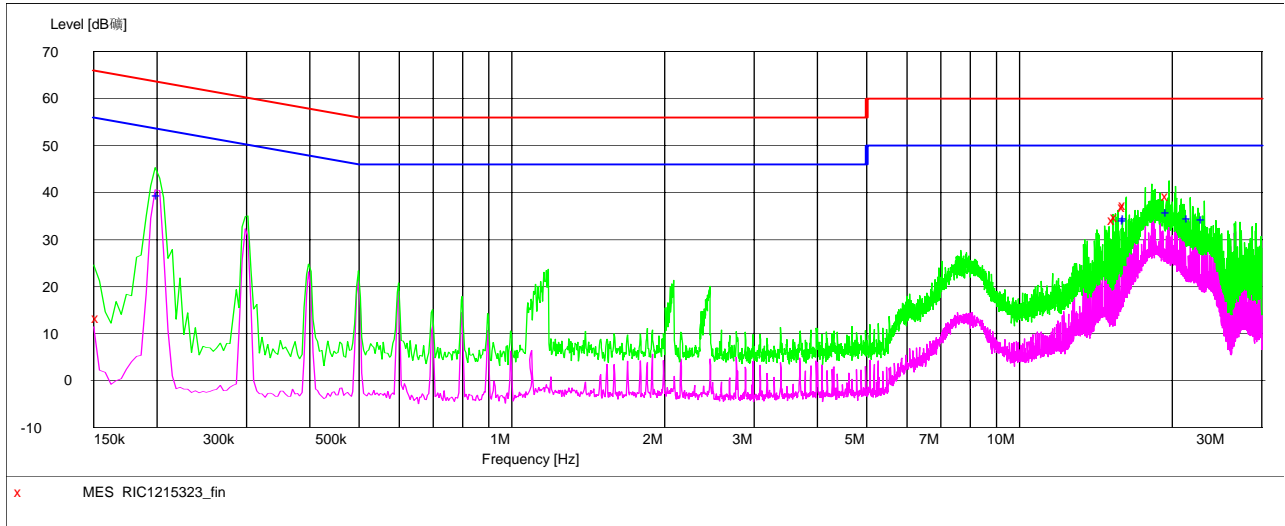
Level=read value+transducer

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

Test Condition	Maximum Radiated Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
Standby	19.71	39.30	N	60	10.90	20.70	QP
	0.202	39.40	N	54	10.30	14.10	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC1215323_fin"

12/15/2010 5:32PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154000	13.40	10.3	66	52.4	QP	N	GND
15.434000	34.10	10.9	60	25.9	QP	N	GND
15.618000	34.80	10.9	60	25.2	QP	N	GND
16.166000	36.90	10.9	60	23.1	QP	N	GND
16.230000	37.30	10.9	60	22.7	QP	N	GND
19.710000	39.30	10.9	60	20.7	QP	N	GND

MEASUREMENT RESULT: "RIC1215323_fin2"

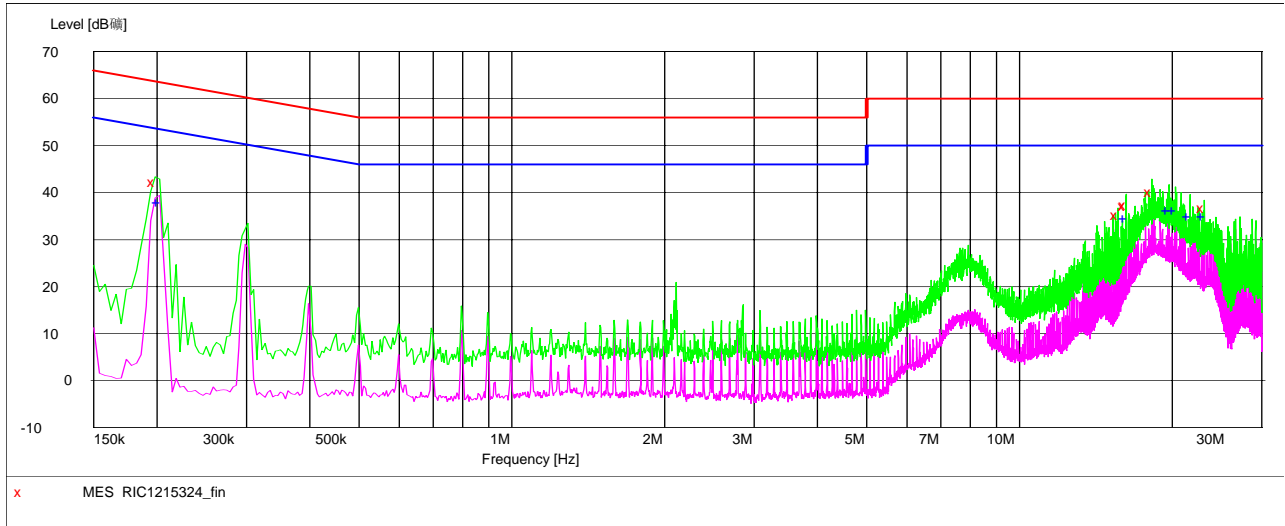
12/15/2010 5:32PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.202000	39.40	10.3	54	14.1	AV	N	GND
16.166000	34.10	10.9	50	15.9	AV	N	GND
16.230000	34.50	10.9	50	15.5	AV	N	GND
19.710000	35.90	10.9	50	14.1	AV	N	GND
21.662000	34.50	11.0	50	15.5	AV	N	GND
23.130000	34.30	11.1	50	15.7	AV	N	GND

Test Condition	Maximum Radiated Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
Standby	18.242	40.00	L	60.00	10.90	20.00	QP
	19.710	36.30	L	50.00	10.90	13.70	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC1215324_fin"

12/15/2010 5:35PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.198000	42.20	10.3	64	21.5	QP	L1	GND
15.618000	35.20	10.9	60	24.8	QP	L1	GND
16.166000	37.10	10.9	60	22.9	QP	L1	GND
16.226000	37.40	10.9	60	22.6	QP	L1	GND
18.242000	40.00	10.9	60	20.0	QP	L1	GND
23.130000	36.60	11.1	60	23.4	QP	L1	GND

MEASUREMENT RESULT: "RIC1215324_fin2"

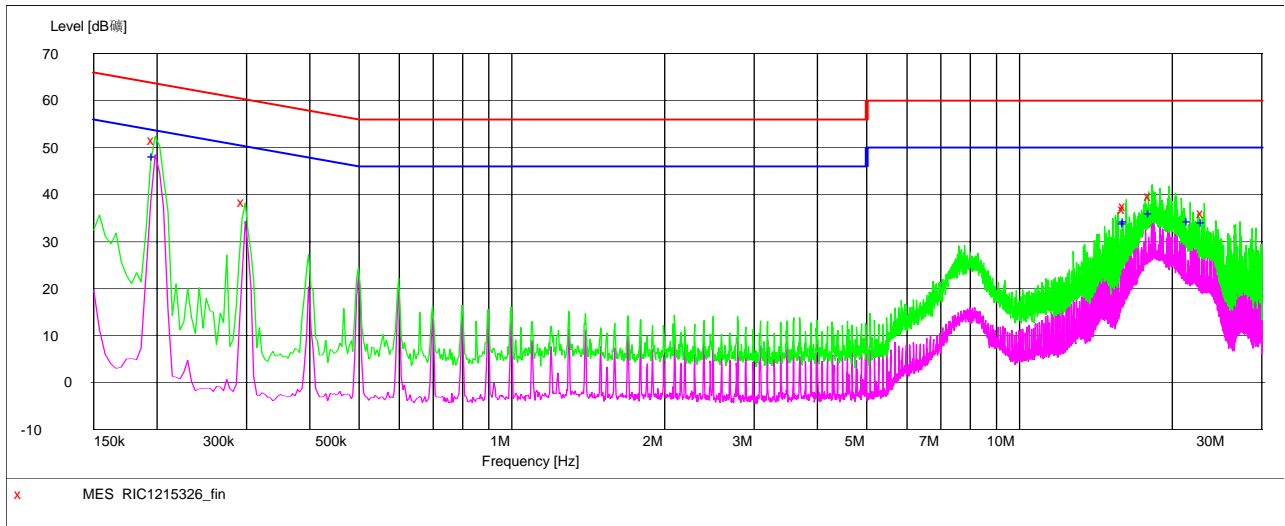
12/15/2010 5:35PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.202000	37.90	10.3	54	15.6	AV	L1	GND
16.230000	34.60	10.9	50	15.4	AV	L1	GND
19.710000	36.30	10.9	50	13.7	AV	L1	GND
20.258000	36.30	10.9	50	13.7	AV	L1	GND
21.662000	35.00	11.0	50	15.0	AV	L1	GND
23.130000	34.90	11.1	50	15.1	AV	L1	GND

Test Condition	Maximum Radiated Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
NIC Print	0.1980	51.60	N	64	10.30	12.10	QP
	0.1980	48.20	N	54	10.30	5.50	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC1215326_fin"

12/15/2010 5:42PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.198000	51.60	10.3	64	12.1	QP	N	GND
0.298000	38.50	10.2	60	21.8	QP	N	GND
16.166000	36.90	10.9	60	23.1	QP	N	GND
16.230000	37.50	10.9	60	22.5	QP	N	GND
18.242000	39.60	10.9	60	20.4	QP	N	GND
23.130000	36.00	11.1	60	24.0	QP	N	GND

MEASUREMENT RESULT: "RIC1215326_fin2"

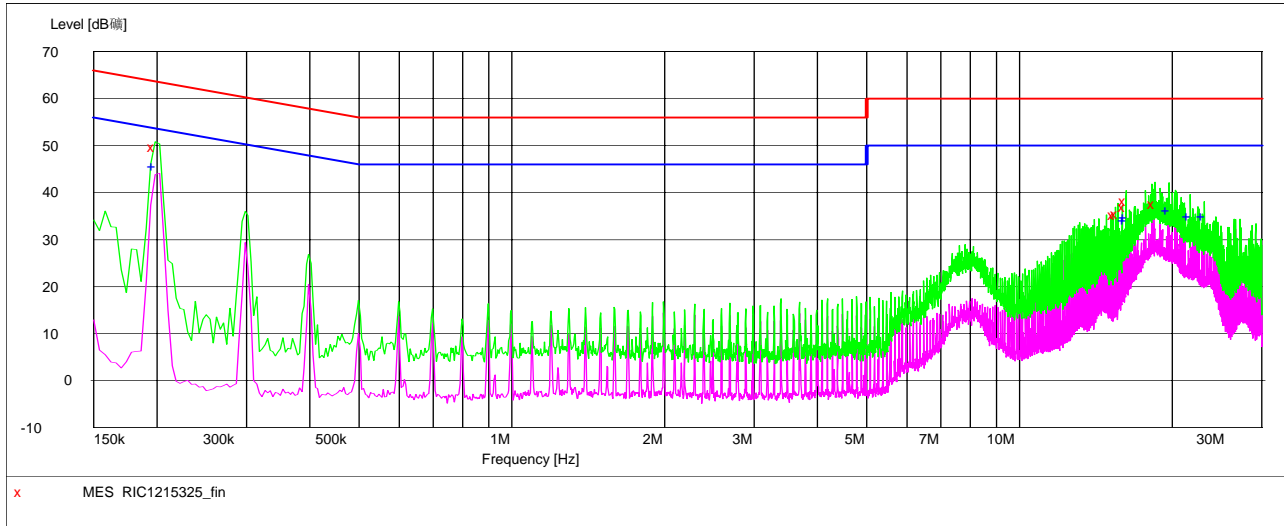
12/15/2010 5:42PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.198000	48.20	10.3	54	5.5	AV	N	GND
16.166000	34.00	10.9	50	16.0	AV	N	GND
16.226000	34.40	10.9	50	15.6	AV	N	GND
18.242000	36.00	10.9	50	14.0	AV	N	GND
21.662000	34.40	11.0	50	15.6	AV	N	GND
23.130000	34.20	11.1	50	15.8	AV	N	GND

Test Condition	Maximum Radiated Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
NIC Print	0.1980	49.70	L	64.00	10.30	14.00	QP
	0.1980	45.70	L	54.00	10.30	8.00	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC1215325_fin"

12/15/2010 5:39PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.198000	49.70	10.3	64	14.0	QP	L1	GND
15.434000	35.20	10.9	60	24.8	QP	L1	GND
15.618000	35.30	10.9	60	24.7	QP	L1	GND
16.166000	37.00	10.9	60	23.0	QP	L1	GND
16.226000	38.20	10.9	60	21.8	QP	L1	GND
18.486000	37.60	10.9	60	22.4	QP	L1	GND

MEASUREMENT RESULT: "RIC1215325_fin2"

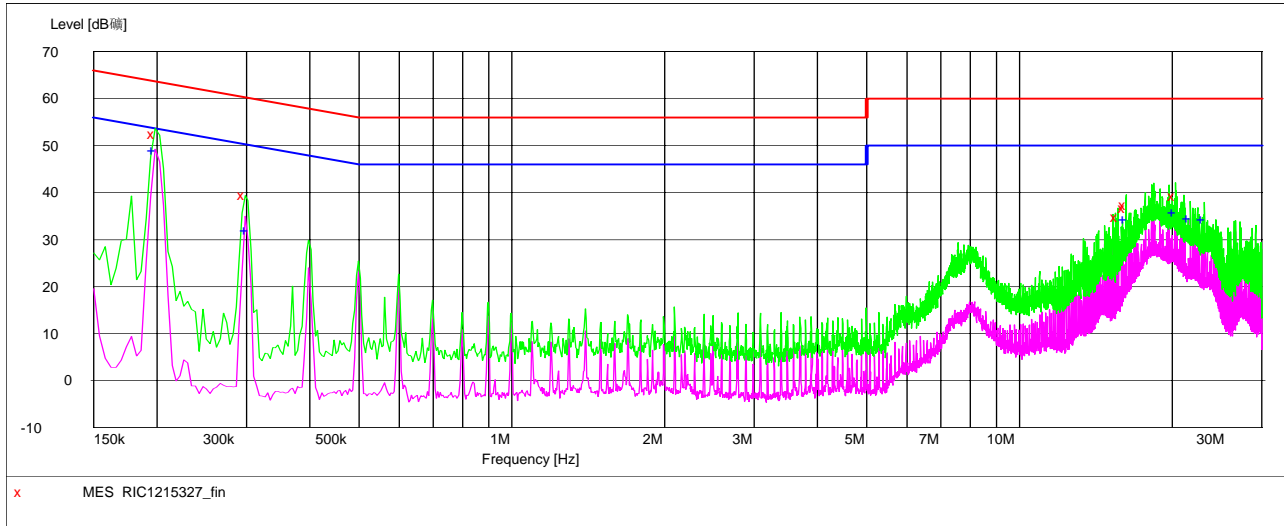
12/15/2010 5:39PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.198000	45.70	10.3	54	8.0	AV	L1	GND
16.166000	34.20	10.9	50	15.8	AV	L1	GND
16.226000	34.80	10.9	50	15.2	AV	L1	GND
19.710000	36.20	10.9	50	13.8	AV	L1	GND
21.662000	34.90	11.0	50	15.1	AV	L1	GND
23.130000	34.90	11.1	50	15.1	AV	L1	GND

Test Condition	Maximum Radiated Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
USB Print	0.1980	52.50	N	64.00	10.30	11.20	QP
	0.1980	49.10	N	54.00	10.30	4.60	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC1215327_fin"

12/15/2010 5:47PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.198000	52.50	10.3	64	11.2	QP	N	GND
0.298000	39.50	10.2	60	20.8	QP	N	GND
15.618000	34.70	10.9	60	25.3	QP	N	GND
16.166000	36.80	10.9	60	23.2	QP	N	GND
16.230000	37.30	10.9	60	22.7	QP	N	GND
20.258000	39.20	10.9	60	20.8	QP	N	GND

MEASUREMENT RESULT: "RIC1215327_fin2"

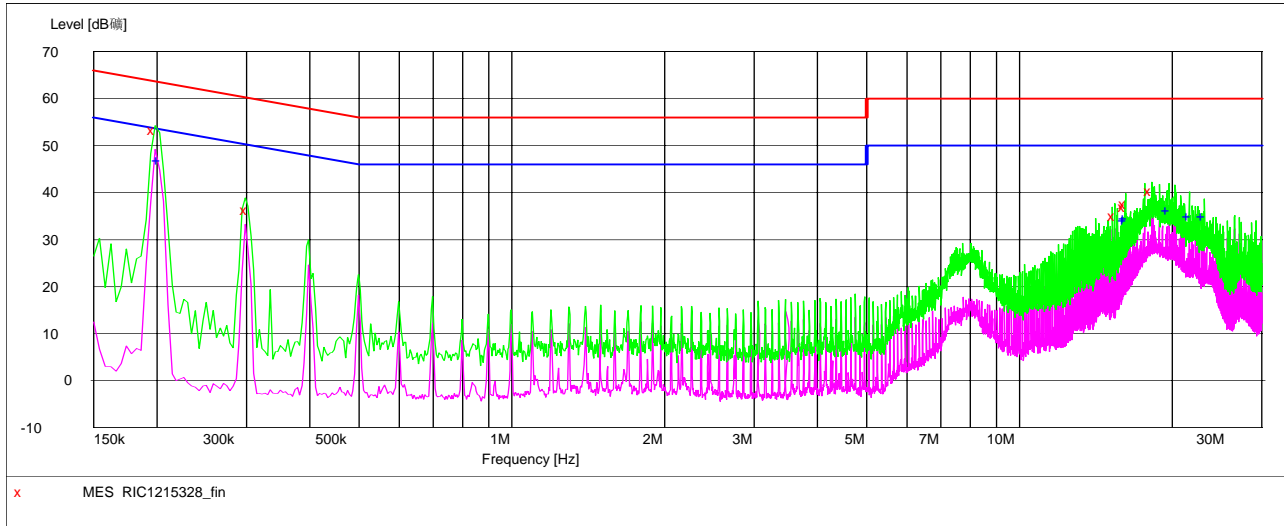
12/15/2010 5:47PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.198000	49.10	10.3	54	4.6	AV	N	GND
0.302000	31.90	10.2	50	18.3	AV	N	GND
16.230000	34.30	10.9	50	15.7	AV	N	GND
20.258000	35.90	10.9	50	14.1	AV	N	GND
21.662000	34.50	11.0	50	15.5	AV	N	GND
23.130000	34.30	11.1	50	15.7	AV	N	GND

Test Condition	Maximum Radiated Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
USB Print	0.1980	53.30	L	64.00	10.30	10.40	QP
	0.2020	47.00	L	54.00	10.30	6.50	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC1215328_fin"

12/15/2010 5:51PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.198000	53.30	10.3	64	10.4	QP	L1	GND
0.302000	36.20	10.2	60	24.0	QP	L1	GND
15.434000	35.00	10.9	60	25.0	QP	L1	GND
16.166000	37.00	10.9	60	23.0	QP	L1	GND
16.230000	37.60	10.9	60	22.4	QP	L1	GND
18.242000	40.20	10.9	60	19.8	QP	L1	GND

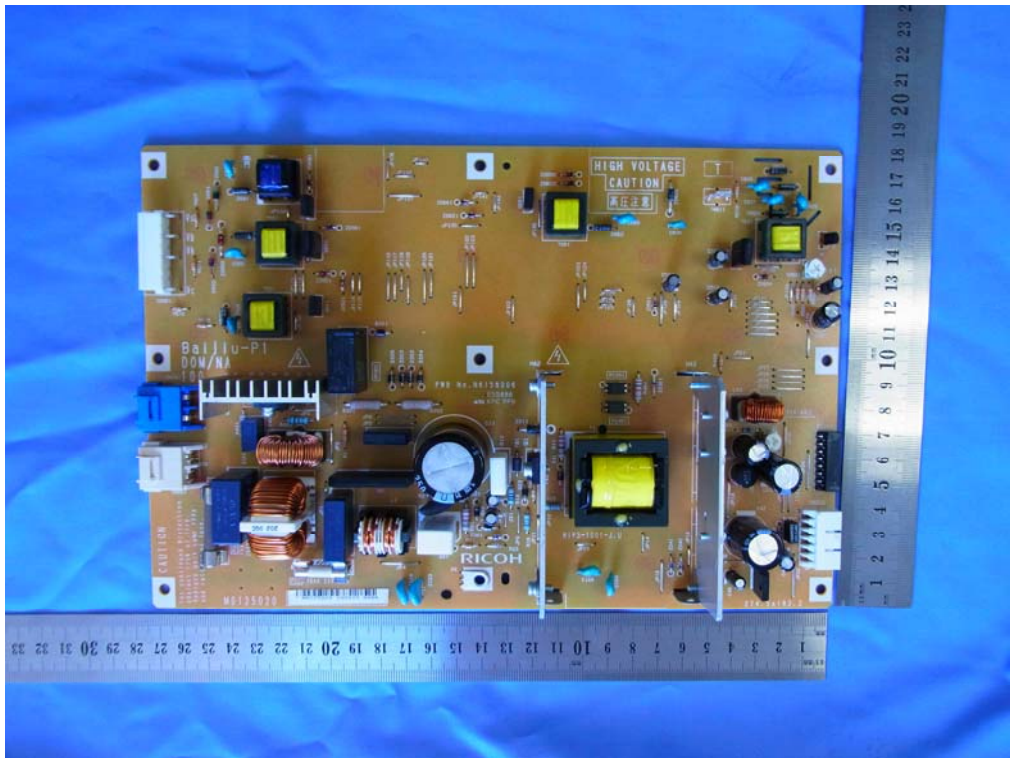
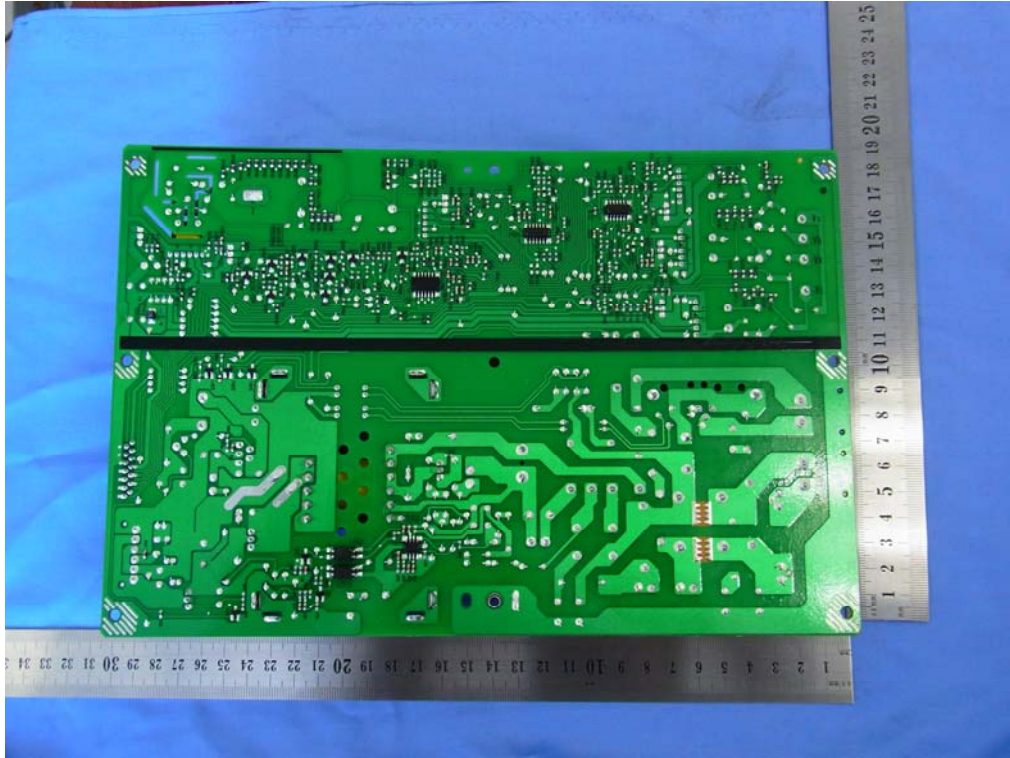
MEASUREMENT RESULT: "RIC1215328_fin2"

12/15/2010 5:51PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.202000	47.00	10.3	54	6.5	AV	L1	GND
16.166000	34.10	10.9	50	15.9	AV	L1	GND
16.230000	34.60	10.9	50	15.4	AV	L1	GND
19.710000	36.30	10.9	50	13.7	AV	L1	GND
21.662000	35.00	11.0	50	15.0	AV	L1	GND
23.130000	35.00	11.1	50	15.0	AV	L1	GND

5. Internal Photos of the Adding Supply Power Board

5.1. Internal photos of the adding power supply board



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