



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.: TRE11110005

FCC ID: BBP-MFMP301SPF1

Compiled by

(position+printed name+signature) ..: File administrators Tim Zhang

Tim Zhang

Supervised by

(position+printed name+signature) ..: Test Engineer Eric Zhang

Eric Zhang

Approved by

(position+printed name+signature) ..: Manager Wenliang Li

Wenliang Li

Date of issue: Nov 11, 2011

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

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

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

Applicant's name: Ricoh Company Ltd

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

Test specification:

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

Non-standard test method: /

Test Report Form No.: HTWEMCFCC_1A

TRF Originator: Shenzhen Huatongwei International Inspection Co., Ltd

Master TRF: Dated 2006-06

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

Trade Mark: /

Manufacturer: Shanghai Ricoh Digital Equipment Co., Ltd.

Model/Type reference: MP 301SP/Aficio MP 301SP, MP 301SPF/Aficio MP 301SPF

Listed Model: /

Ratings: 120V 60Hz 9A 1100W

Result: Positive

EMC -- T E S T R E P O R T

Test Report No. : TRE11110005	Nov 11, 2011 Date of issue
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Equipment under Test : Multifunction Digital Product(Copier/Printer/Scanner/Fax)

Model / Type : MP 301SP/Aficio MP 301SP, MP 301SPF/Aficio MP 301SPF

Listed Model : /

Applicant : Ricoh Company Ltd

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

Manufacturer : Shanghai Ricoh Digital Equipment Co., Ltd.

Address : No. 887 Jingang Road, Pudong New Area, 201206 Shanghai, PEOPLE'S REPUBLIC OF CHINA

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

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1. TEST STANDARDS

The tests were performed according to following standards:

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

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

2. SUMMARY

2.1. General Remarks:

Date of receipt of test sample : Nov 06, 2011

Testing commenced on : Nov 06, 2011

Testing concluded on : Nov 11, 2011

2.2. Equipment under Test

Power supply system utilised

Power supply voltage : o 230V / 50 Hz o 115V / 60Hz
 o 12 V DC o 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 Multifunction Digital Product (Copier/Printer/Scanner/Fax)

Model Difference: Unless otherwise indicated, all tests were conducted on Model TypeA. Tests performed on Model TypeA were considered to be representative of Model TypeB.

The differences between the models are as follows.

RICOH's Models	Note
TypeB: MP 301SP/Aficio MP 301SP	Copy + Print , Scan
TypeA: MP 301SPF/Aficio MP 301SPF	Copy + Print , Scan +Fax

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
(1)Copy Machine	RICOH	MP 301SPF /Aficio MP 301SPF	D1281700005	
(2)ARDF	RICOH	ARDF DF1030	AGD1110900132	
(3)-1 BANK	RICOH	Paper Feed Unit PB 1040	D661-171087	
(3)-2 BANK	RICOH	Paper Feed Unit PB 1040	D661-171071	
(4)MKB	RICOH	Optional Counter Interface Unit Type A	B870510210500256	
(5) Bluetooth(USB)	RICOH	Bluetooth Interface Unit Type D	002673F214A	
(6)HDD	RICOH	Hard Disk Drive Option Type 301	WXC1A71J2297	
(7)IEEE 1284	RICOH	IEEE 1284 Interface Board Type A	B5955870001200173	
(8)Wireless LAN	RICOH	IEEE 802.11a/g Interface Unit Type J	D37546010800019	
(9)GigaEther &USB	RICOH	Gigabit Ethernet Board Type A	G8745000C10300113	
(10) ICIB	RICOH	Copy Data Security Unit Type F	B8295106D10200029	
(11) MLB	RICOH	File Format Converter Type E	D3775603A10300019	
(12)Fax Unit	RICOH	FAX Option Type 301	FC1108415068	
(13)Handset	RICOH	Hand Set Type C5502	1CETE17BAF33R011	

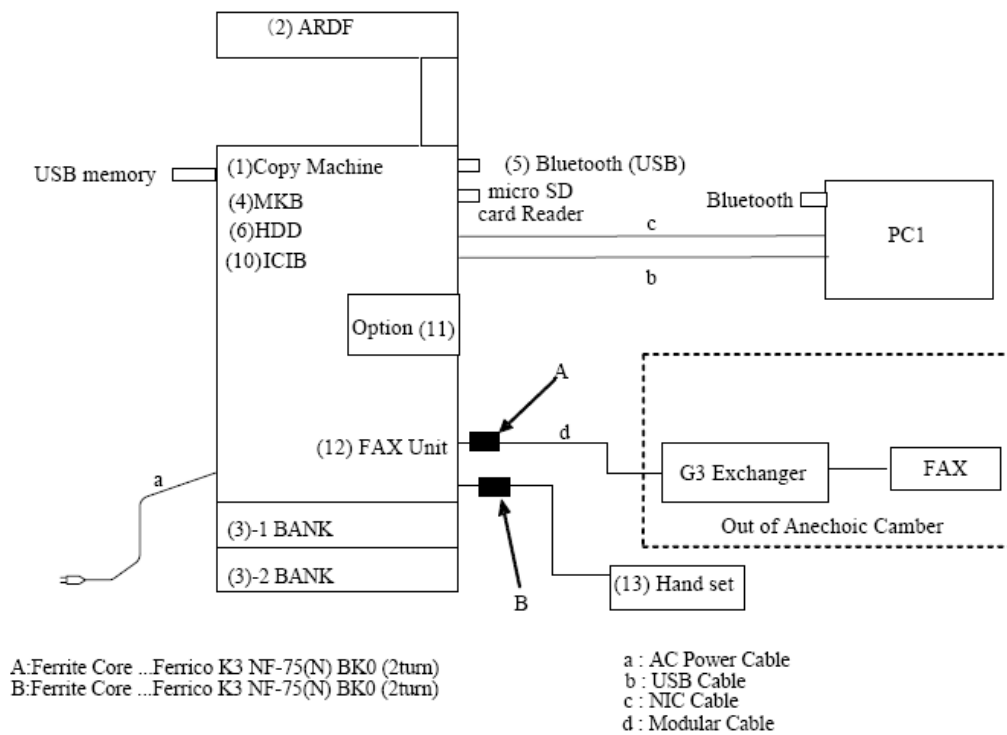
2) Highest Frequency Generated or Used in The Device or on Which the Device Operates Or Tunes (MHz)

Kind of equipment	Model name	Operates Frequency	Remarks
Copy Machine	MP 301SPF/Aficio MP 301SPF	1.5GHz	HDD

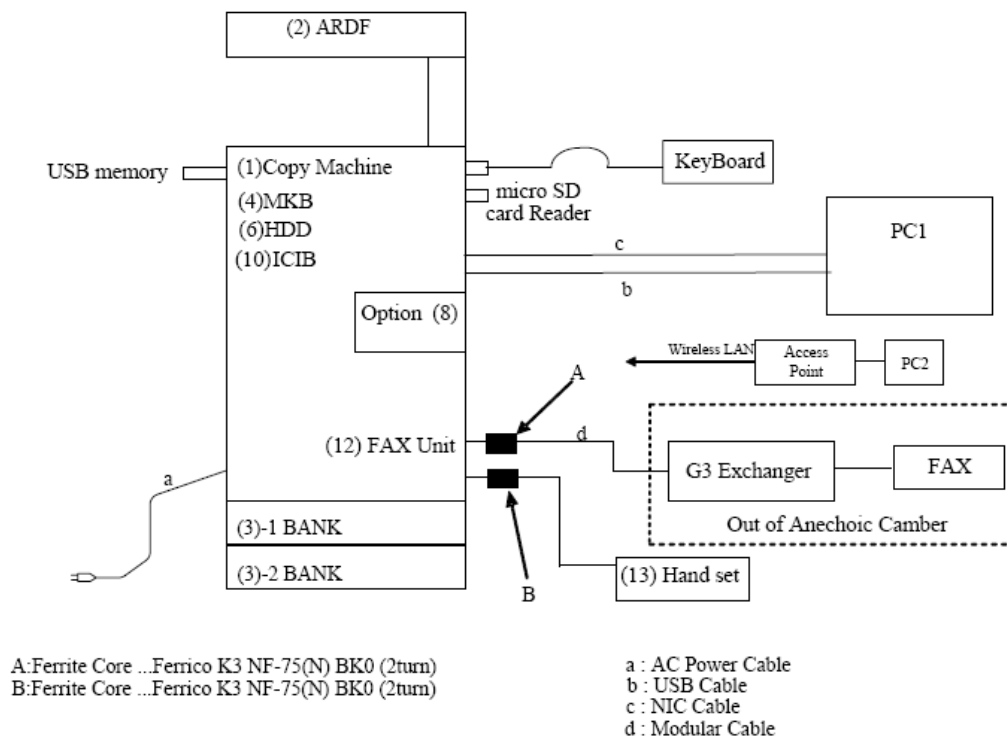
3) Supporting equipment

Kind of equipment	Manufacturer	Model name	Serial number	Remarks
(1)PC1	Lenovo	ThinkPad X201i	R8-7DYTX10/11	
(2)PC2	Dell	D610	CN-0D4571-48643-51S-0236	
(3)G3 Exchanger	Tengda	PABX	-	
(4)FAX Machine	Ricoh	Aficio SP 3410SF	S6918900047	
(5)USB Memory	Transcend	TS8GJF600	5954222137	
(6)SD Card	ATP	AF2GSD	TF02500713	
(7)PC Bluetooth(USB)	Kingfox	KW-001	kw00115216	
(8)Access Point	Buffalo	WHR-HP-GN	44061000300952	
(9)Keyboard	Dell	SK-8115	CN0DJ3317161678POITD	
(10)Micro SD Reader	Buffalo	BSCRMSDCWH	A10801	

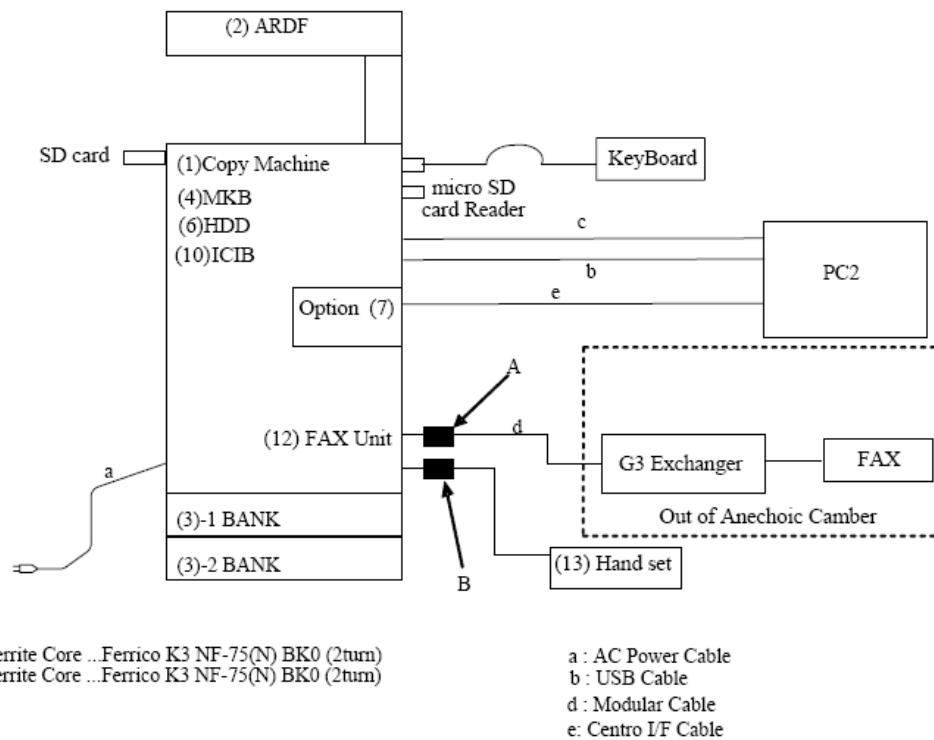
Mode 3 Bluetooth Print + Scan to Media (USB)



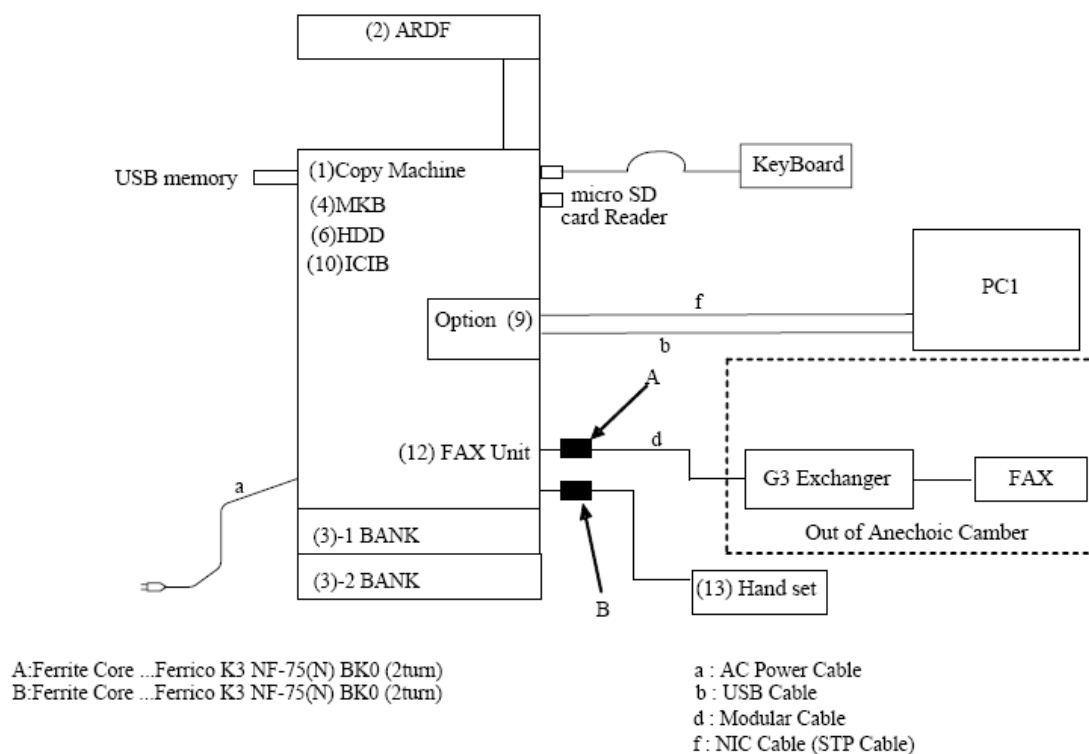
Mode 4 IEEE802.11g Print & Scan



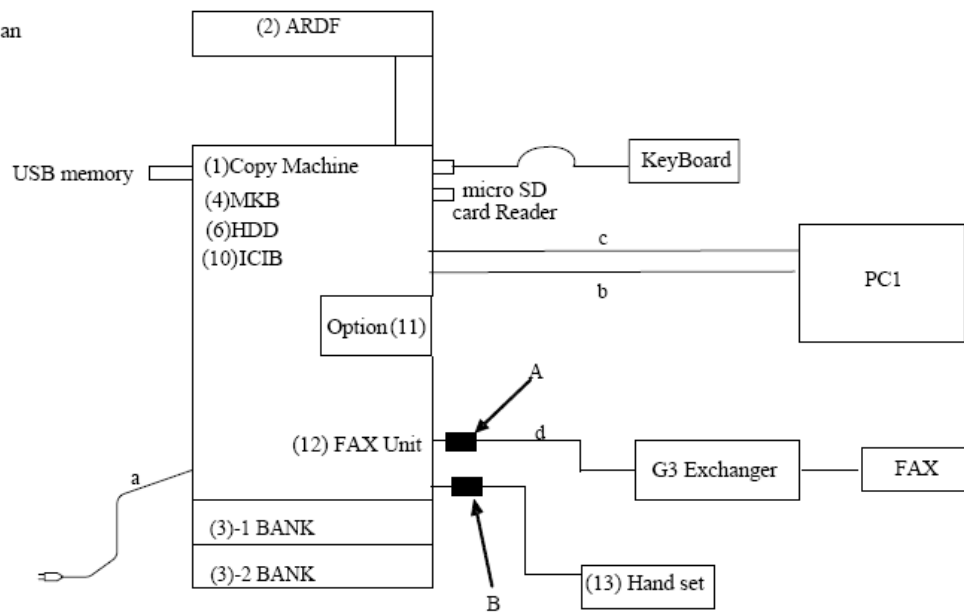
Mode 5 USB2.0 Print +IEEE1284 Print +Scan to Media (SD)



Mode 6 Giga ping & Scan + USB (Giga) Print



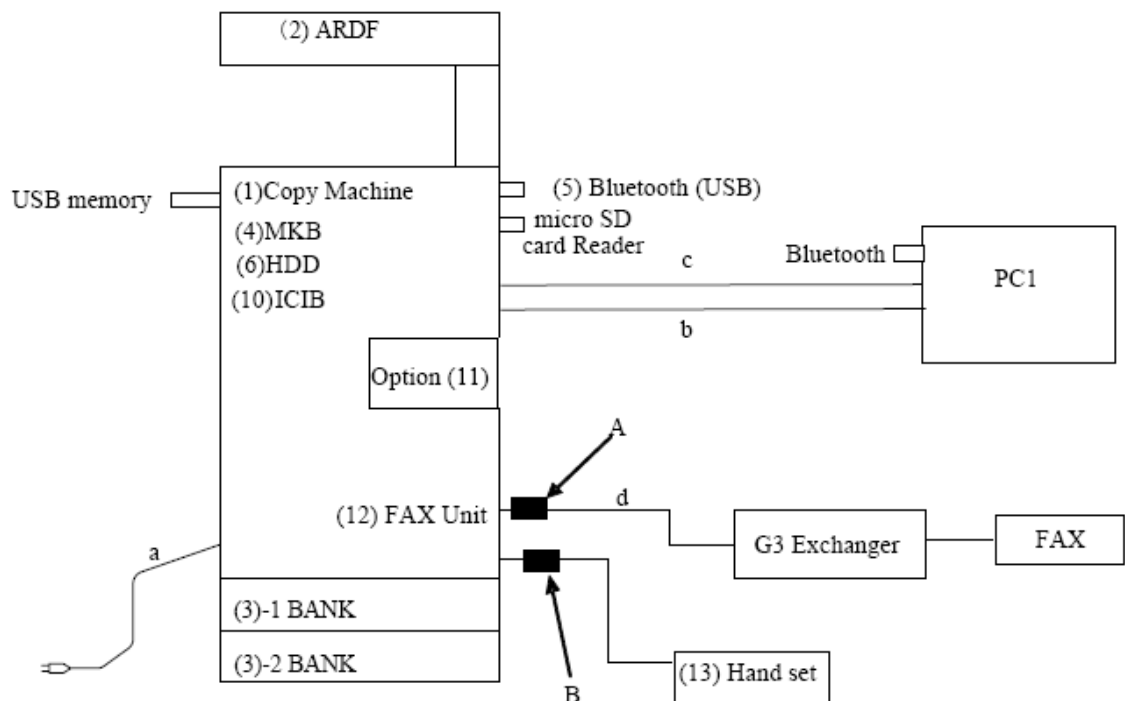
Mode 9 Standby
 Mode 10 Copy
 Mode 15 G3-Tx
 Mode 16 G3-Rx
 Mode 17 NIC Print&Scan



A: Ferrite Core ...Ferrico K3 NF-75(N) BK0 (2turn)
 B: Ferrite Core ...Ferrico K3 NF-75(N) BK0 (2turn)

a : AC Power Cable
 b : USB Cable
 c : NIC Cable
 d : Modular Cable

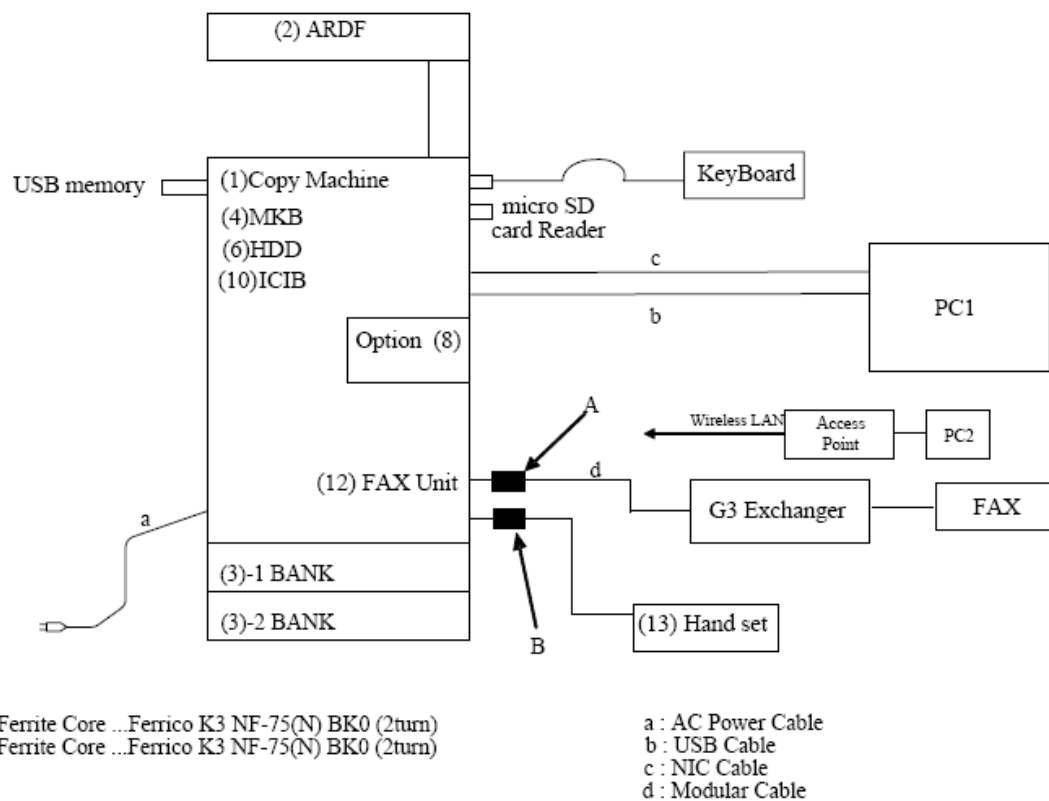
Mode 11 Bluetooth Print + Scan to Media (USB)



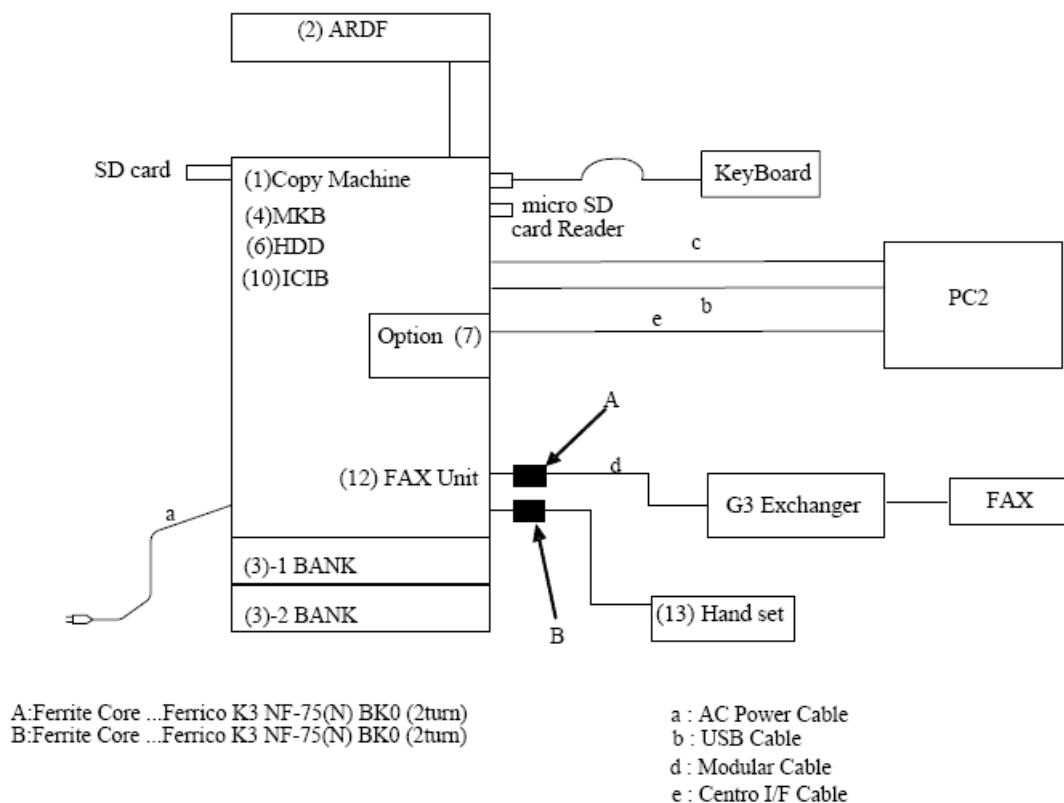
A: Ferrite Core ...Ferrico K3 NF-75(N) BK0 (2turn)
 B: Ferrite Core ...Ferrico K3 NF-75(N) BK0 (2turn)

a : AC Power Cable
 b : USB Cable
 c : NIC Cable
 d : Modular Cable

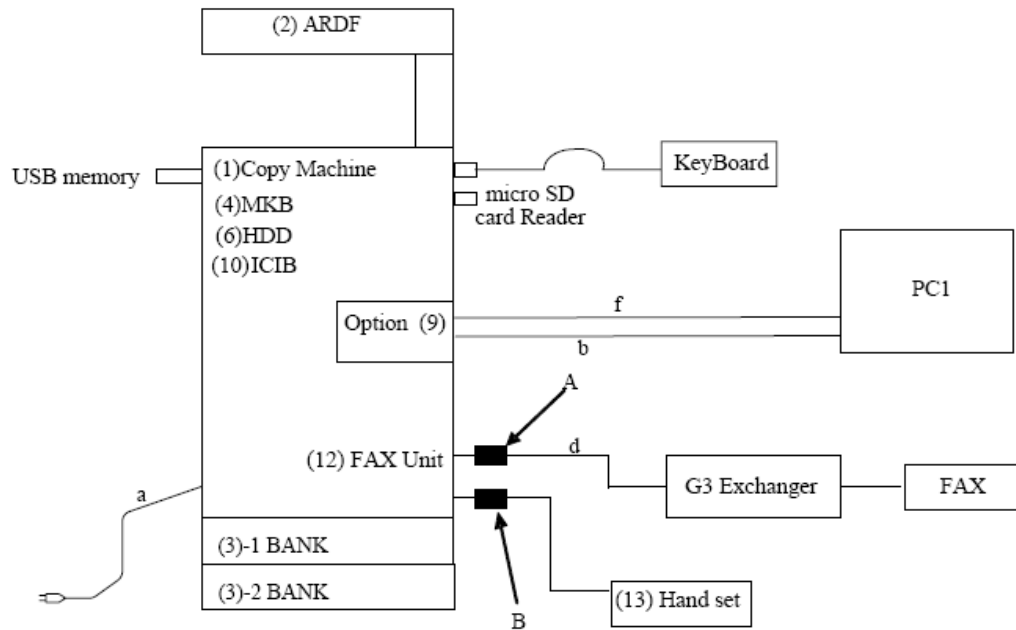
Mode 12 IEEE802.11g Print & Scan



Mode 13 USB2.0 Print +IEEE1284 Print +Scan to Media (SD)



Mode 14 Giga ping & Scan + USB (Giga) Print



A: Ferrite Core ... Ferrico K3 NF-75(N) BK0 (2um)
 B: Ferrite Core ... Ferrico K3 NF-75(N) BK0 (2um)

a : AC Power Cable
 b : USB Cable
 d : Modular Cable
 f : NIC Cable (STP Cable)

6) The combination of apparatus, and the mode of operation

Model name	Operating Mode																
Mode No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
EUT	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
ARDF DF1030	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
BANK PB1040	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
BANK PB1040	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MKB Optional Counter Interface Unit Type A	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Hard Disk Drive Option Type 301	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
ICIB Copy Data Security Unit Type F	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
IEEE1284 Interface Board Type A					○								○				
IEEE 802.11a/g Interface Unit Type J				○								○					
Gigabit Ethernet Board Type A						○								○			
Bluetooth Interface Unit Type D			○								○						
MLB File Format Converter Type E	○	○	○				○	○	○	○	○				○	○	○
FAX Option Type 301	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Hand Set Type C5502	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Key Board	○	○		○	○	○	○	○	○	○		○	○	○	○	○	○

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 30, 2009. Valid time is until Mar 29, 2012.

A2LA-Lab Cert. No. 2243.01

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

FCC-Registration No.: 662850

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

IC-Registration No.: 5377

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. 5377 on Jan 25, 2011. Valid time is until Jan 24, 2014

ACA

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

NEMKO-Aut. No.: ELA125

Shenzhen Huatongwei International Inspection Co., Ltd has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025:2005 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10, the Authorization is valid through July 07, 2013.

VCCI

The 3m Semi-anechoic chamber (12.2m×7.95m×6.7m) and Shielded Room (8m×4m×3m) of Shenzhen Huatongwei International Inspection Co., Ltd has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2484. Date of Registration: December 20, 2006. Valid time is until December 20, 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, 2006. Valid time is until December 19, 2012.

DNV

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

3.3. Environmental conditions

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

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

3.4. Test Description

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

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

3.5. Statement of the measurement uncertainty

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

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

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.24dB	(1)
Radiated Emission	1G~7.5G	5.16dB	(1)
Conducted Disturbance	0.15~30 MHz	3.39dB	(1)

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

3.6. Equipments Used during the Test

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

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	Rohde & Schwarz	ESCS30	100038	2011/10/24
2	Artificial Mains	Rohde & Schwarz	ESH2-Z5	100028	2011/10/24
3	Artificial Mains	Rohde & Schwarz	ESH3-Z5	100040	2011/10/24
4	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100044	2011/10/24
5	EMI Test Software	Rohde & Schwarz	ESK1	N/A	2011/10/24
6	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 (dB μ V/m)	
30 ~ 88	3	40	
88~216	3	43.5	
216 ~ 960	3	46	
960-1000	3	54	
1000-7500	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 1500MHz, so the measurement was made up to 7.5 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, Copy + NIC Ping, Bluetooth Print + Scan to Media(USB),IEEE802.11g Print&Scan, USB2.0 Print + IEEE1284 Print + Scan to Media(SD), Giga Ping & Scan + USB(Giga) print, G3 Tx, G3 Rx 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-7.5G

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

Margin=limit-level

Level=read value+transducer

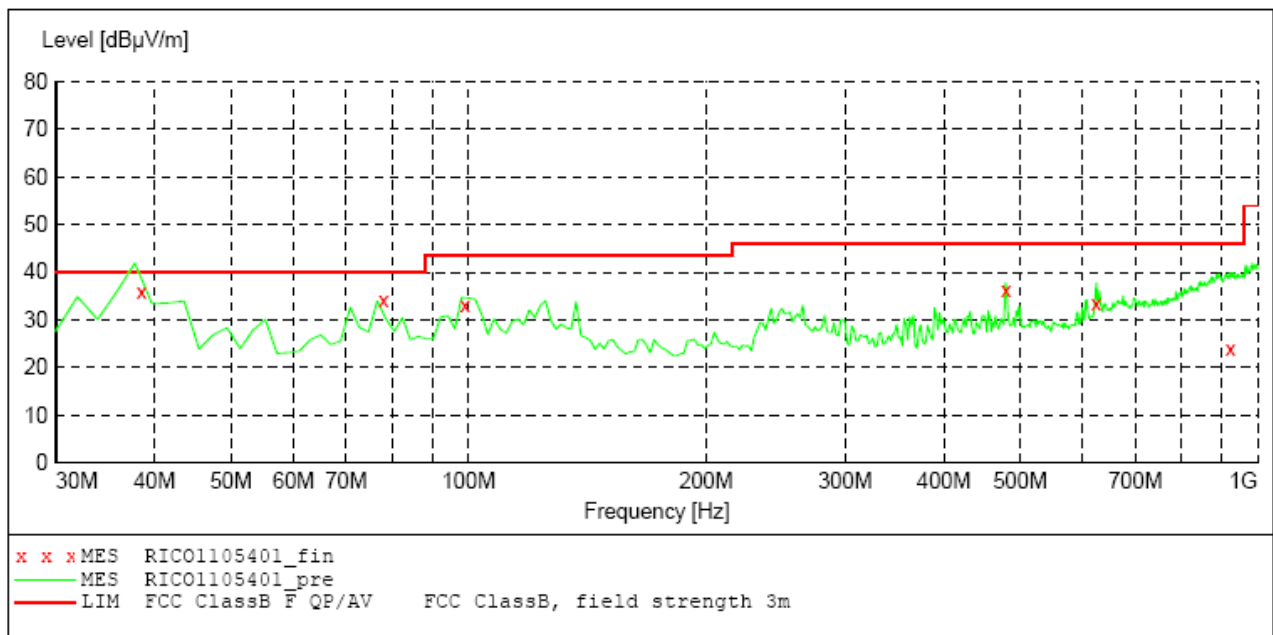
Transducer=antenna factor+pre-amplifier factor+cable loss (with 6db attenuator)

For 30MHz-1000MHz

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
Standby	38.52	35.90	Vertical	40.00	4.1	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: "RICO1105401_fin"**

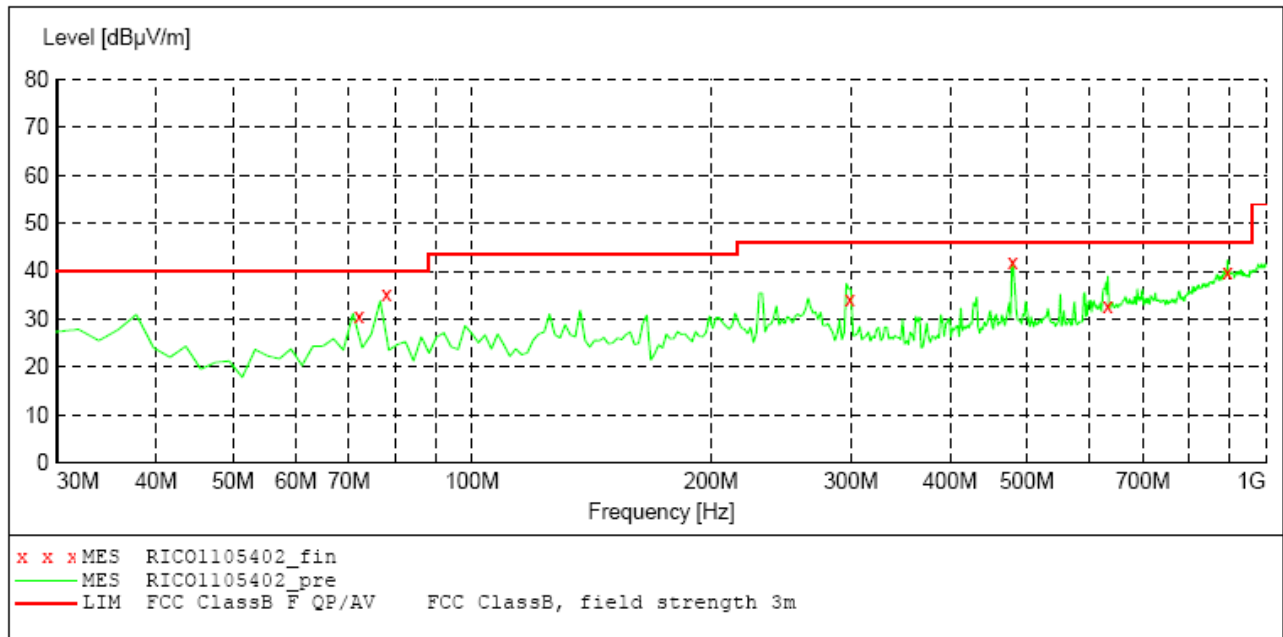
11/5/2011 9:43AM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
38.520000	35.90	-7.7	40.0	4.1	QP	100.0	139.00	VERTICAL
78.120000	34.00	-14.7	40.0	6.0	QP	100.0	249.00	VERTICAL
99.060000	33.20	-11.6	43.5	10.3	QP	100.0	52.00	VERTICAL
480.000000	36.40	-3.5	46.0	9.6	QP	100.0	190.00	VERTICAL
624.720000	33.30	-0.6	46.0	12.7	QP	100.0	198.00	VERTICAL
924.360000	23.90	6.0	46.0	22.1	QP	100.0	336.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
Standby	480.00	42.00	Horizontal	46.00	4.0	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: "RICO1105402_fin"

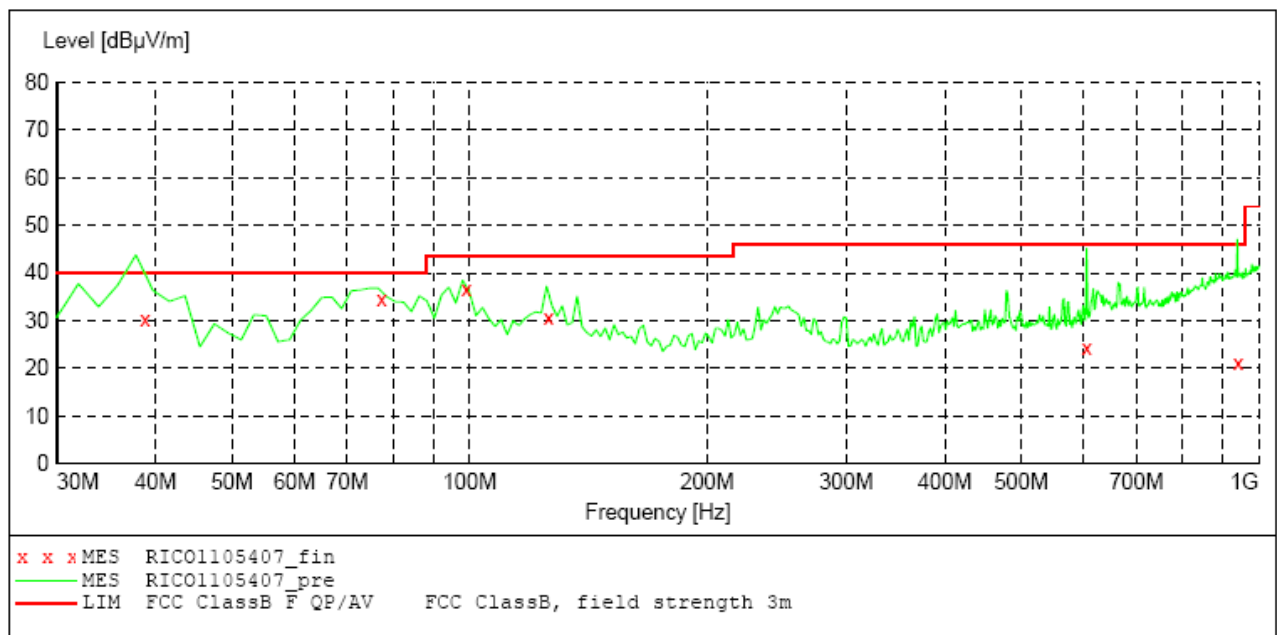
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Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
72.120000	30.80	-15.1	40.0	9.2	QP	250.0	143.00	HORIZONTAL
78.120000	35.30	-14.7	40.0	4.7	QP	250.0	153.00	HORIZONTAL
299.280000	34.20	-8.3	46.0	11.8	QP	100.0	23.00	HORIZONTAL
480.000000	42.00	-3.5	46.0	4.0	QP	100.0	177.00	HORIZONTAL
632.460000	32.60	-0.3	46.0	13.4	QP	100.0	176.00	HORIZONTAL
894.660000	39.80	6.0	46.0	6.2	QP	150.0	200.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
Copy+NIC PING	77.40	34.50	Vertical	40.00	5.5	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: "RICO1105407_fin"

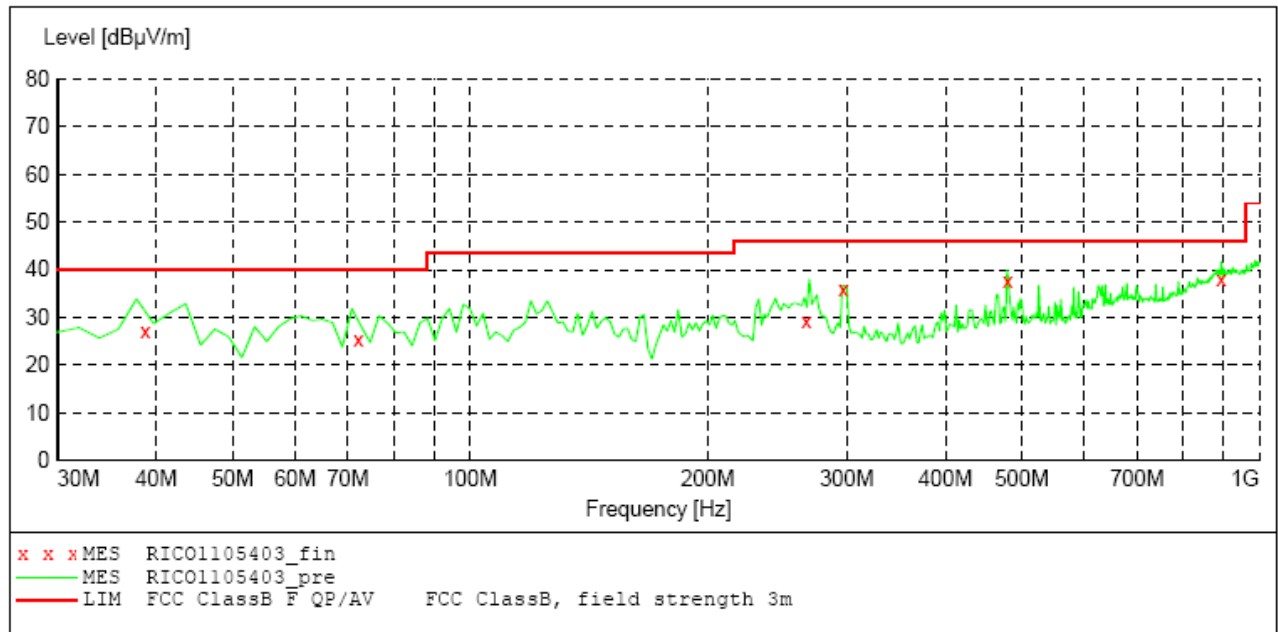
11/5/2011 10:26AM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
38.820000	30.40	-7.9	40.0	9.6	QP	100.0	360.00	VERTICAL
77.400000	34.50	-14.7	40.0	5.5	QP	150.0	228.00	VERTICAL
99.060000	36.60	-11.6	43.5	6.9	QP	100.0	134.00	VERTICAL
125.880000	30.60	-11.6	43.5	12.9	QP	100.0	206.00	VERTICAL
605.520000	24.30	-1.7	46.0	21.7	QP	118.0	239.00	VERTICAL
942.060000	21.20	5.9	46.0	24.8	QP	150.0	0.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
Copy+NIC PING	894.60	38.00	Horizontal	46.00	8.0	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: "RICO1105403_fin"**

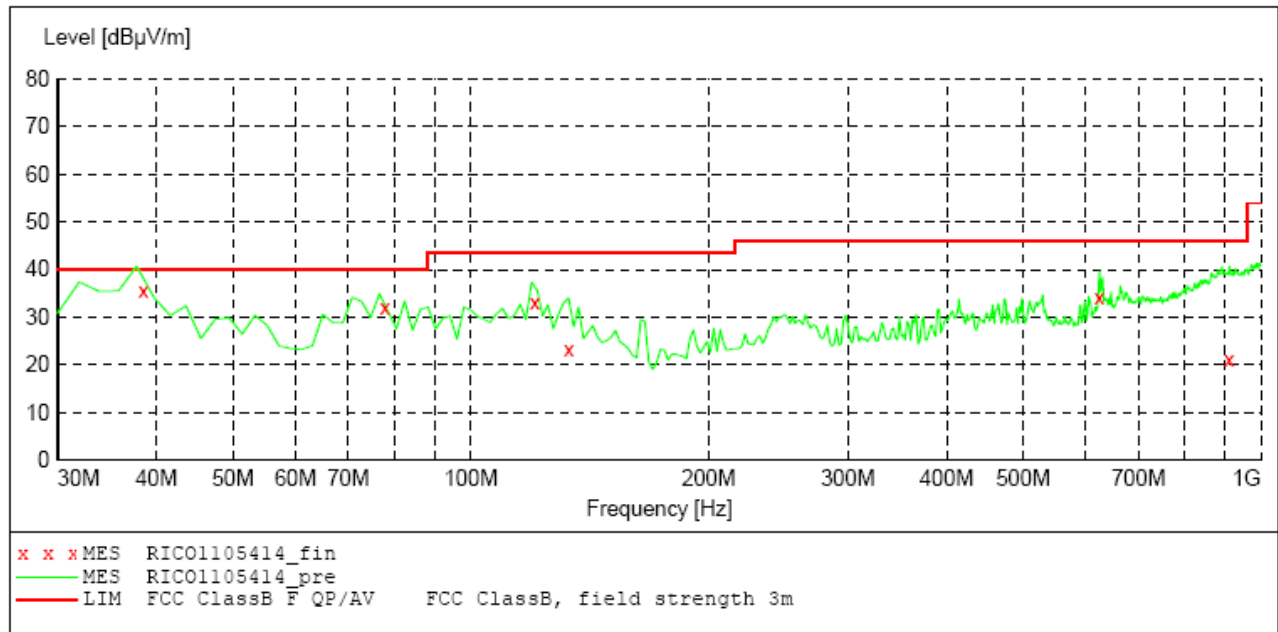
11/5/2011 10:01AM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
38.760000	27.00	-7.9	40.0	13.0	QP	272.0	285.00	HORIZONTAL
72.180000	25.50	-15.1	40.0	14.5	QP	250.0	114.00	HORIZONTAL
266.700000	29.10	-9.6	46.0	16.9	QP	100.0	87.00	HORIZONTAL
297.060000	35.80	-8.5	46.0	10.2	QP	100.0	31.00	HORIZONTAL
480.000000	37.60	-3.5	46.0	8.4	QP	100.0	158.00	HORIZONTAL
894.600000	38.00	6.0	46.0	8.0	QP	100.0	144.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
Bluetooth Print+Scan to Media(USB)	38.52	35.50	Vertical	40.00	4.5	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: "RICO1105414_fin"

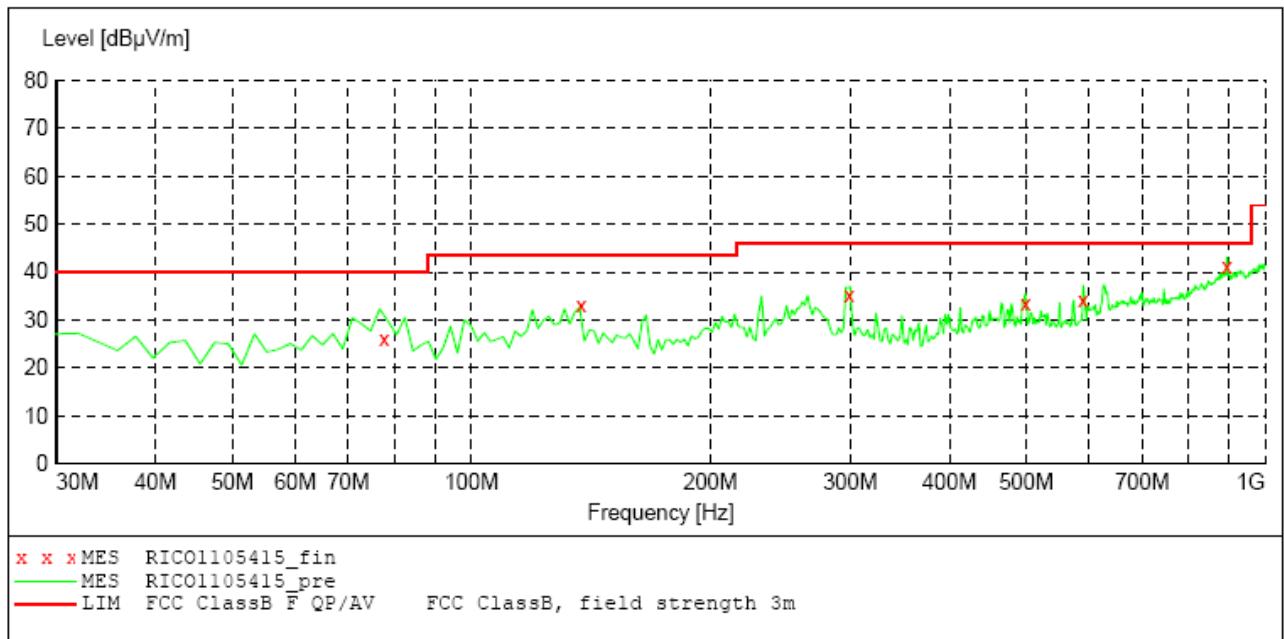
11/5/2011 11:36AM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
38.520000	35.50	-7.7	40.0	4.5	QP	100.0	55.00	VERTICAL
77.880000	32.10	-14.7	40.0	7.9	QP	130.0	240.00	VERTICAL
120.480000	33.20	-11.1	43.5	10.3	QP	100.0	200.00	VERTICAL
133.140000	23.40	-12.6	43.5	20.1	QP	100.0	201.00	VERTICAL
624.720000	34.20	-0.6	46.0	11.8	QP	100.0	160.00	VERTICAL
912.120000	21.10	5.9	46.0	24.9	QP	100.0	307.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
Bluetooth Print+Scan to Media(USB)	894.60	41.10	Horizontal	46.00	4.9	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: "RICO1105415_fin"

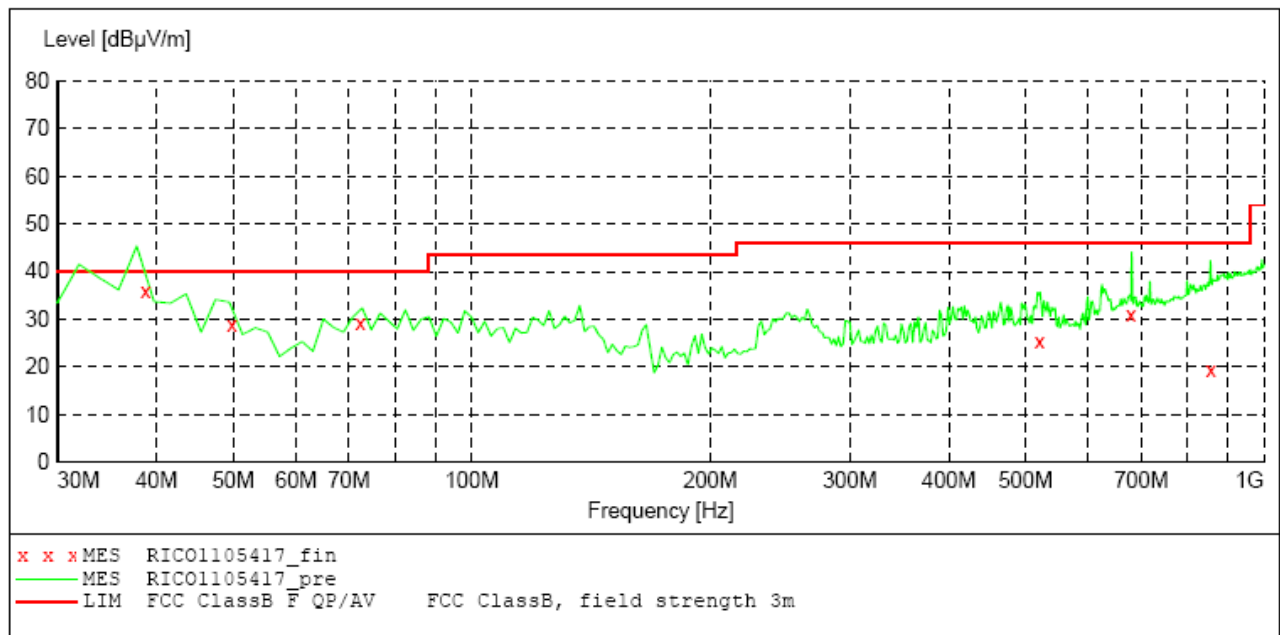
11/5/2011 11:45AM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
77.700000	26.10	-14.7	40.0	13.9	QP	289.0	173.00	HORIZONTAL
137.640000	33.00	-13.1	43.5	10.5	QP	150.0	149.00	HORIZONTAL
299.520000	35.30	-8.3	46.0	10.7	QP	100.0	113.00	HORIZONTAL
499.320000	33.40	-3.5	46.0	12.6	QP	100.0	192.00	HORIZONTAL
589.800000	34.20	-2.7	46.0	11.8	QP	100.0	184.00	HORIZONTAL
894.600000	41.10	6.0	46.0	4.9	QP	114.0	219.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
IEEE802.11g Print&Scan	38.76	35.80	Vertical	40.00	4.2	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: "RICO1105417_fin"

11/5/2011 12:21PM

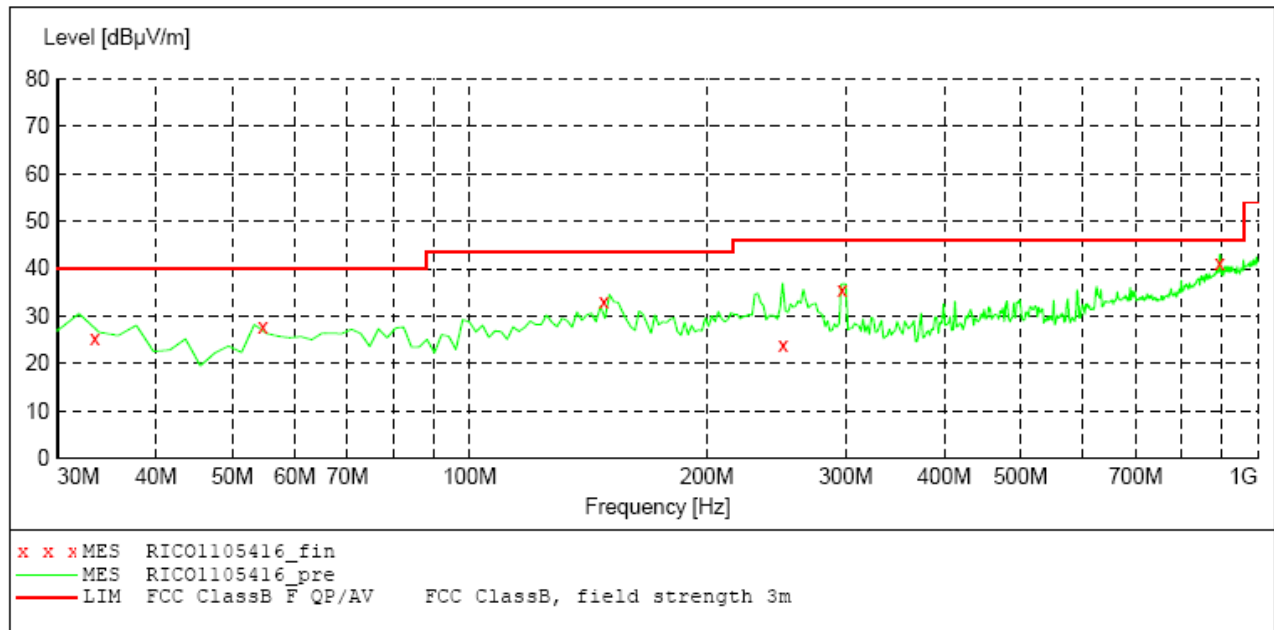
Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
38.760000	35.80	-7.9	40.0	4.2	QP	100.0	313.00	VERTICAL
49.860000	28.80	-14.2	40.0	11.2	QP	100.0	19.00	VERTICAL
72.420000	29.20	-15.1	40.0	10.8	QP	100.0	360.00	VERTICAL
521.340000	25.30	-2.7	46.0	20.7	QP	100.0	356.00	VERTICAL
679.980000	31.00	0.9	46.0	15.0	QP	150.0	186.00	VERTICAL
857.460000	19.50	4.6	46.0	26.5	QP	150.0	94.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
IEEE802.11g Print&Scan	894.50	41.30	Horizontal	46.00	4.7	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: "RICO1105416_fin"**

11/5/2011 12:05PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
33.480000	25.40	-5.1	40.0	14.6	QP	350.0	278.00	HORIZONTAL
54.660000	27.90	-15.6	40.0	12.1	QP	350.0	92.00	HORIZONTAL
148.080000	33.00	-14.4	43.5	10.5	QP	150.0	252.00	HORIZONTAL
250.020000	23.80	-10.3	46.0	22.2	QP	100.0	277.00	HORIZONTAL
297.060000	35.70	-8.5	46.0	10.3	QP	100.0	132.00	HORIZONTAL
894.540000	41.30	6.0	46.0	4.7	QP	150.0	207.00	HORIZONTAL

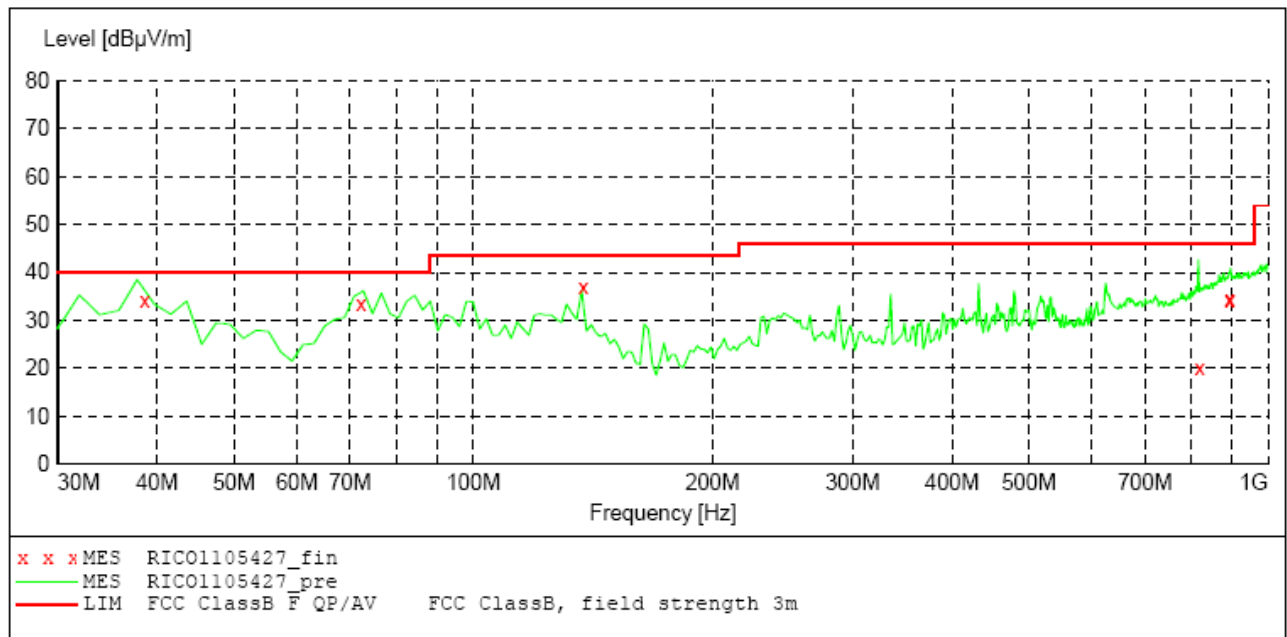
Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
USB2.0 Print + IEEE1284 Print + Scan to Media(SD)	38.64	34.00	Vertical	40.00	6.0	QP
Test Results				Pass		

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: "RICO1105427_fin"

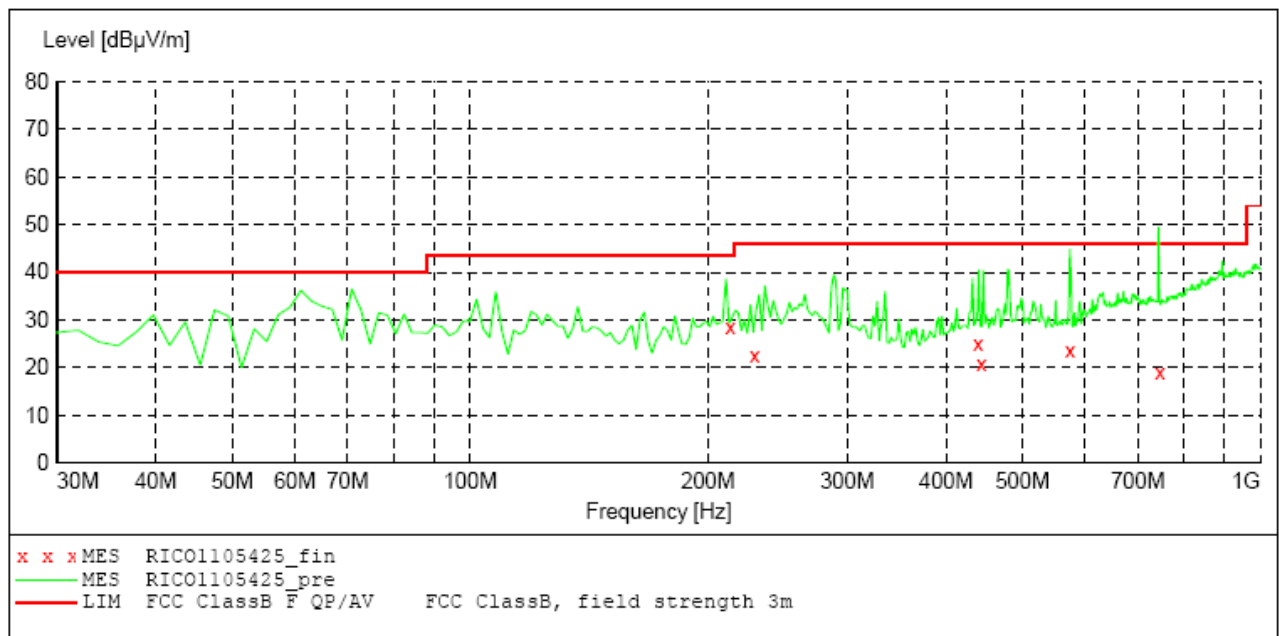
11/5/2011 3:27PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
38.640000	34.00	-7.8	40.0	6.0	QP	100.0	330.00	VERTICAL
72.240000	33.60	-15.1	40.0	6.4	QP	114.0	296.00	VERTICAL
137.640000	36.90	-13.1	43.5	6.6	QP	100.0	48.00	VERTICAL
820.260000	18.50	3.4	46.0	27.5	QP	114.0	76.00	VERTICAL
894.420000	34.30	6.1	46.0	11.7	QP	140.0	207.00	VERTICAL
894.600000	34.50	6.0	46.0	11.5	QP	150.0	203.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
USB2.0 Print + IEEE1284 Print + Scan to Media(SD)	213.66	27.60	Horizontal	43.5	15.9	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: "RICO1105425_fin"**

11/5/2011 2:08PM

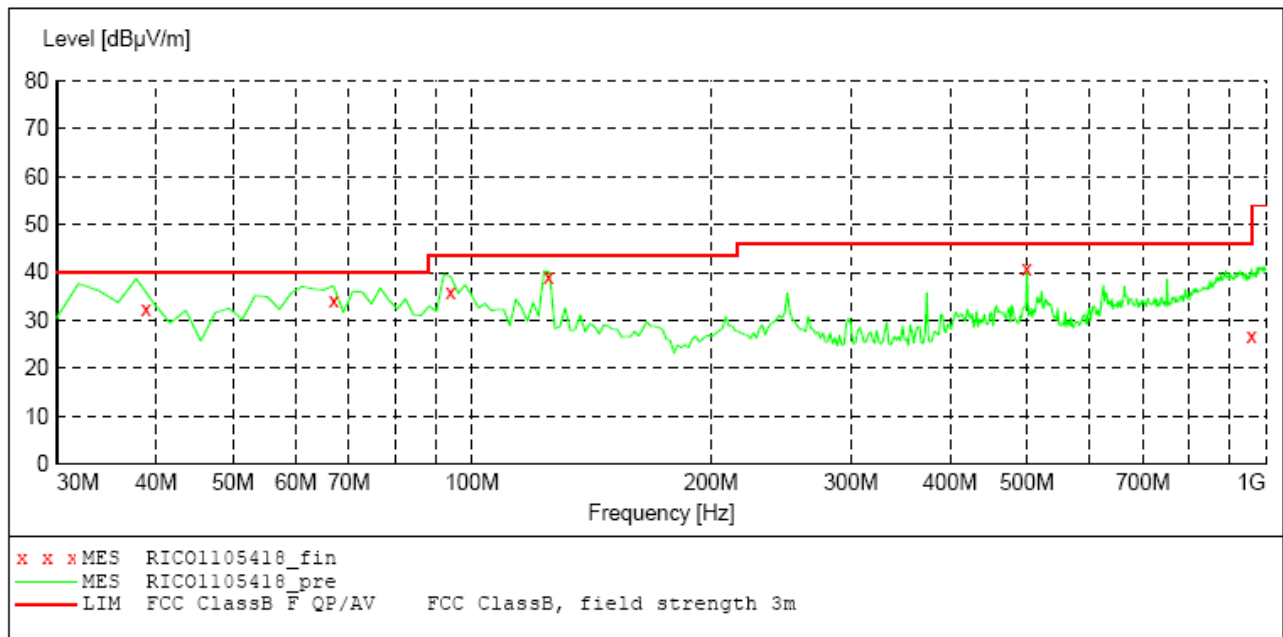
Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
213.660000	27.60	-13.0	43.5	15.9	QP	100.0	164.00	HORIZONTAL
229.260000	21.60	-11.8	46.0	24.4	QP	100.0	77.00	HORIZONTAL
439.740000	24.00	-5.2	46.0	22.0	QP	150.0	215.00	HORIZONTAL
444.120000	19.80	-4.9	46.0	26.2	QP	118.0	86.00	HORIZONTAL
574.800000	22.60	-3.2	46.0	23.4	QP	100.0	119.00	HORIZONTAL
746.400000	18.00	0.9	46.0	28.0	QP	250.0	299.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
Giga Ping & Scan + USB(Giga) print	124.98	39.20	Vertical	43.5	4.3	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: "RICO1105418_fin"

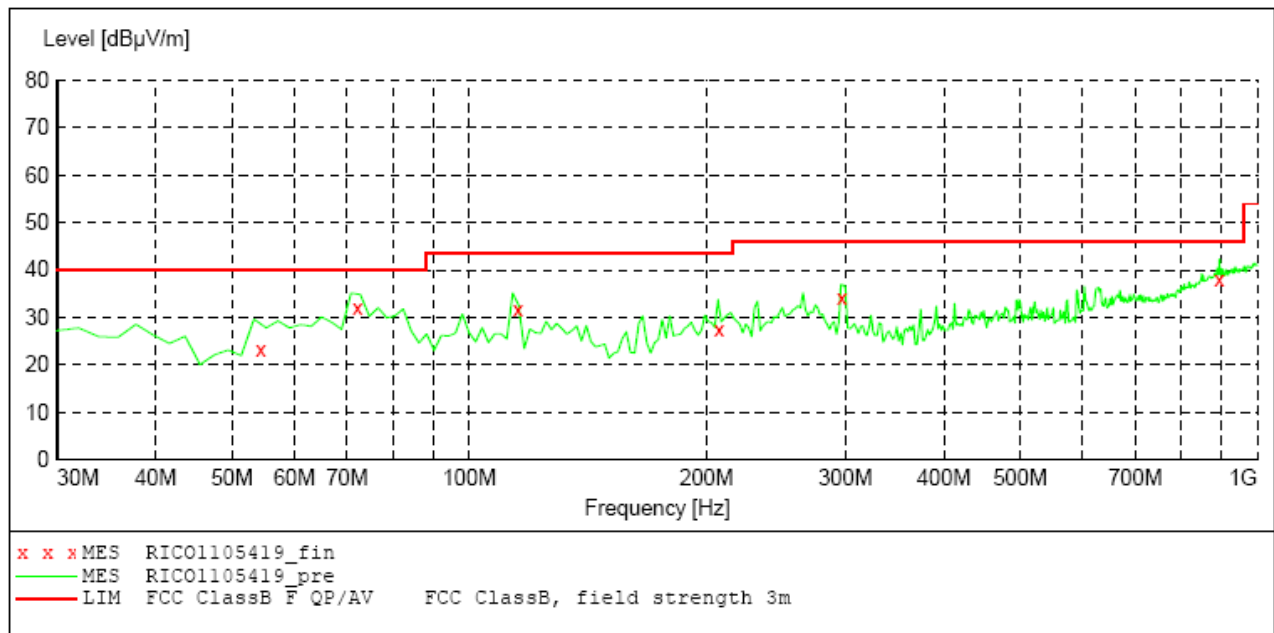
11/5/2011 12:45PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
38.880000	32.40	-7.9	40.0	7.6	QP	150.0	276.00	VERTICAL
67.020000	34.30	-15.8	40.0	5.7	QP	150.0	278.00	VERTICAL
94.080000	35.80	-11.8	43.5	7.7	QP	127.0	228.00	VERTICAL
124.980000	39.20	-11.4	43.5	4.3	QP	100.0	249.00	VERTICAL
499.980000	41.00	-3.5	46.0	5.0	QP	100.0	182.00	VERTICAL
960.000000	26.70	6.4	46.0	19.3	QP	100.0	330.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
Giga Ping & Scan + USB(Giga) print	72.18	32.10	Horizontal	40.00	7.9	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: "RICO1105419_fin"

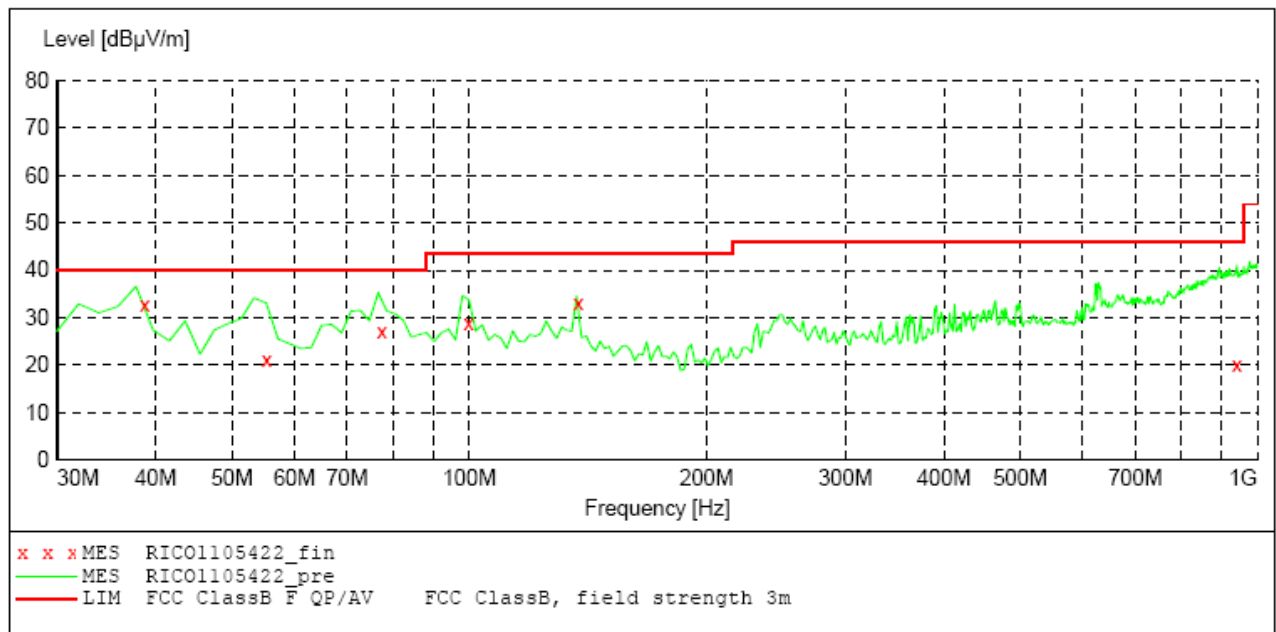
11/5/2011 12:55PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
54.420000	23.40	-15.5	40.0	16.6	QP	322.0	0.00	HORIZONTAL
72.180000	32.10	-15.1	40.0	7.9	QP	250.0	121.00	HORIZONTAL
115.320000	31.60	-11.3	43.5	11.9	QP	276.0	355.00	HORIZONTAL
207.660000	27.50	-13.4	43.5	16.0	QP	100.0	164.00	HORIZONTAL
297.300000	34.00	-8.5	46.0	12.0	QP	100.0	105.00	HORIZONTAL
894.480000	38.10	6.1	46.0	7.9	QP	100.0	134.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
G3-TX	38.76	32.70	Vertical	40.00	7.3	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: "RICO1105422_fin"

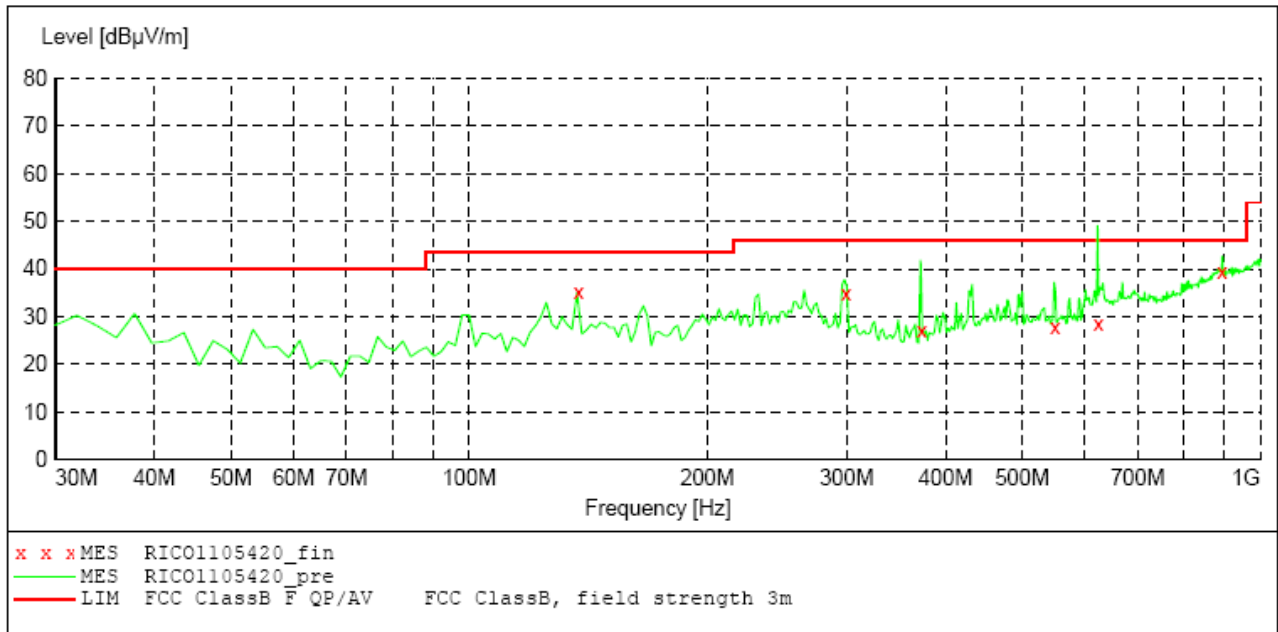
11/5/2011 1:25PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
38.760000	32.70	-7.9	40.0	7.3	QP	122.0	267.00	VERTICAL
55.380000	21.10	-15.9	40.0	18.9	QP	147.0	85.00	VERTICAL
77.520000	27.20	-14.7	40.0	12.8	QP	100.0	330.00	VERTICAL
99.840000	28.80	-11.5	43.5	14.7	QP	100.0	24.00	VERTICAL
137.640000	33.20	-13.1	43.5	10.3	QP	100.0	16.00	VERTICAL
941.520000	20.20	5.9	46.0	25.8	QP	122.0	61.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
G3-TX	894.54	39.50	Horizontal	46.00	6.5	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: "RICO1105420_fin"**

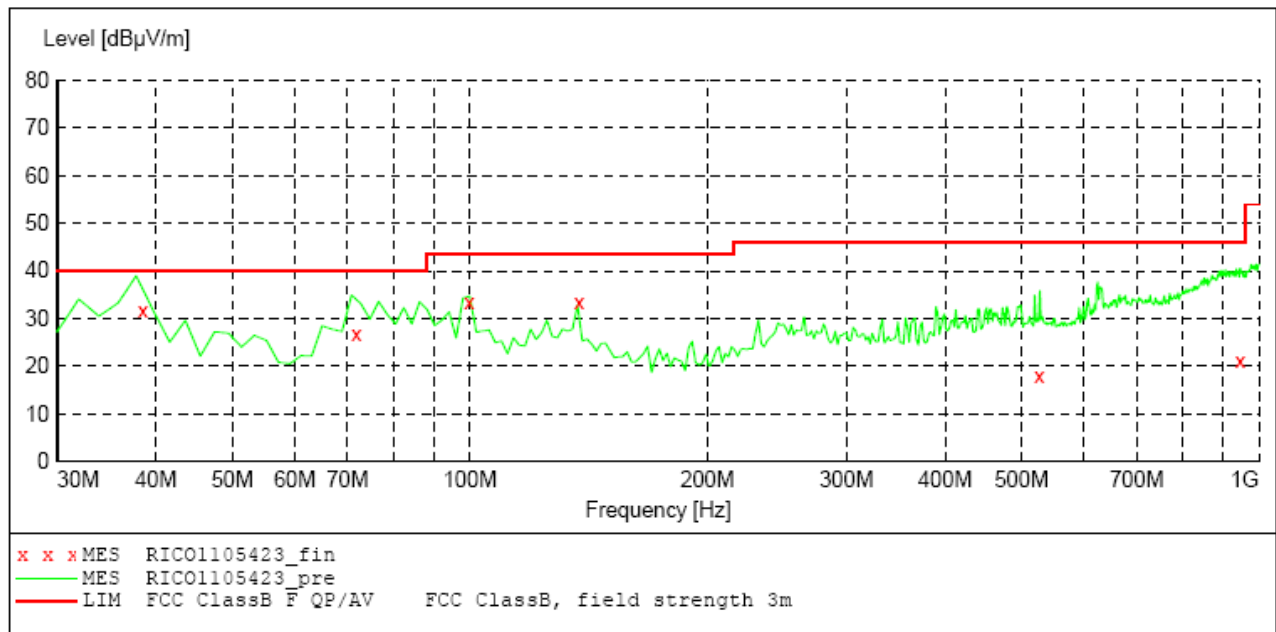
11/5/2011 1:15PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
137.640000	35.20	-13.1	43.5	8.3	QP	147.0	120.00	HORIZONTAL
299.580000	34.90	-8.3	46.0	11.1	QP	100.0	16.00	HORIZONTAL
373.560000	27.00	-7.4	46.0	19.0	QP	148.0	173.00	HORIZONTAL
550.500000	27.80	-3.4	46.0	18.2	QP	249.0	182.00	HORIZONTAL
624.780000	28.60	-0.6	46.0	17.4	QP	250.0	89.00	HORIZONTAL
894.540000	39.50	6.0	46.0	6.5	QP	119.0	209.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
G3-RX	38.52	31.80	Vertical	40.00	8.2	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: "RICO1105423_fin"**

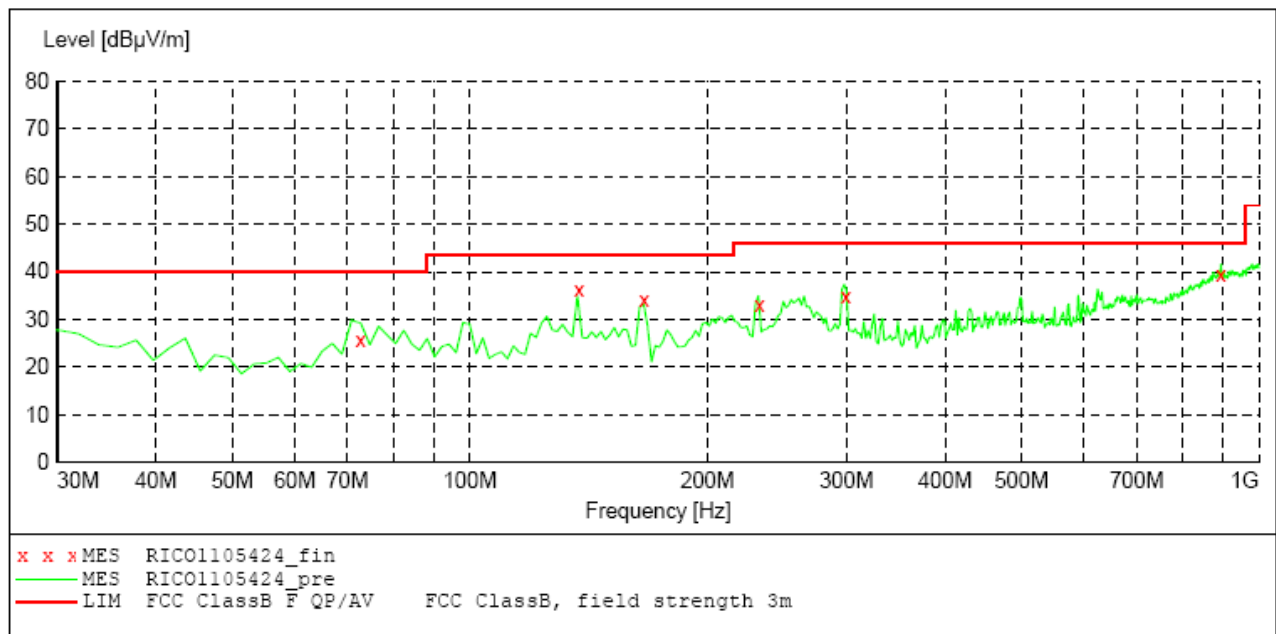
11/5/2011 1:36PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
38.520000	31.80	-7.7	40.0	8.2	QP	100.0	85.00	VERTICAL
71.880000	26.70	-15.2	40.0	13.3	QP	100.0	305.00	VERTICAL
99.840000	33.30	-11.5	43.5	10.2	QP	100.0	50.00	VERTICAL
137.640000	33.40	-13.1	43.5	10.1	QP	100.0	0.00	VERTICAL
526.920000	18.10	-2.8	46.0	27.9	QP	100.0	343.00	VERTICAL
946.560000	21.00	5.9	46.0	25.0	QP	100.0	357.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
G3-RX	894.54	39.40	Horizontal	46.00	6.6	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: "RICO1105424_fin"

11/5/2011 1:45PM

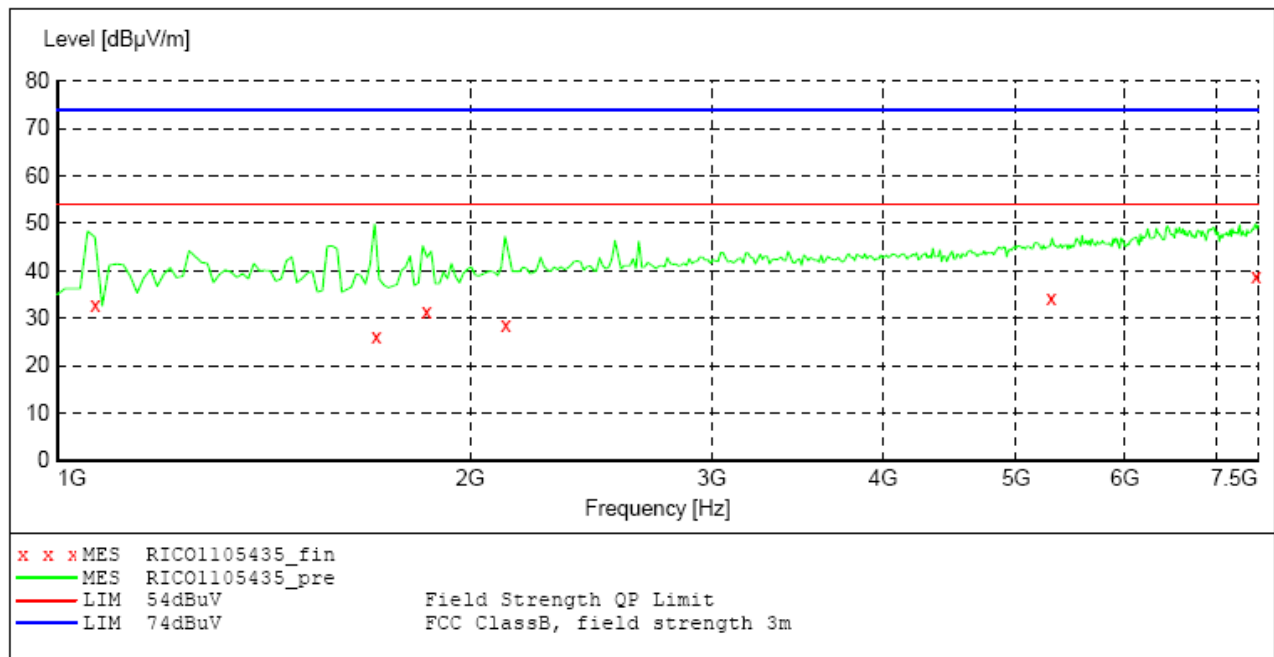
Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
72.720000	25.70	-15.0	40.0	14.3	QP	250.0	133.00	HORIZONTAL
137.640000	36.20	-13.1	43.5	7.3	QP	135.0	133.00	HORIZONTAL
166.380000	34.30	-15.4	43.5	9.2	QP	143.0	149.00	HORIZONTAL
233.040000	33.10	-11.4	46.0	12.9	QP	100.0	213.00	HORIZONTAL
299.580000	34.90	-8.3	46.0	11.1	QP	100.0	29.00	HORIZONTAL
894.540000	39.40	6.0	46.0	6.6	QP	150.0	197.00	HORIZONTAL

For 1000MHz-7500MHz

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
Standby	7483.00	38.80	Vertical	54.00	15.2	AV
Test Results				Pass		

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

Short Description: FCC PART 15 Class B 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: "RICO1105435_fin"***

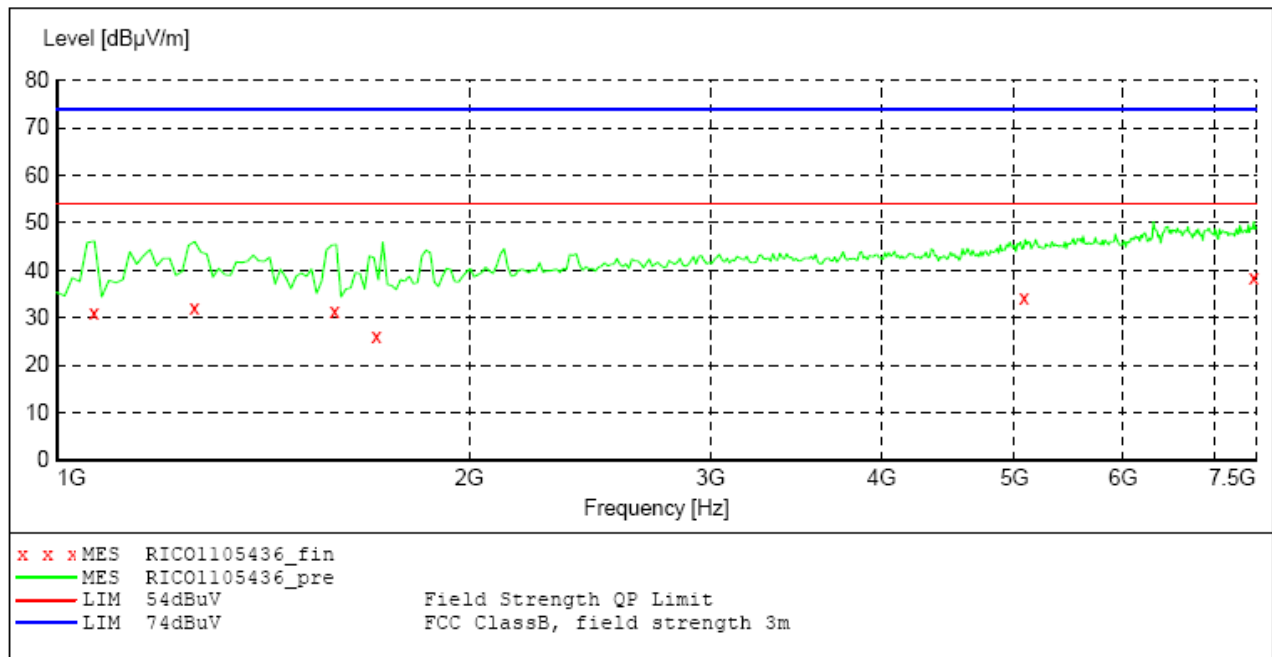
11/5/2011 4:19PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1065.500000	32.90	-9.2	54.0	21.1	AV	131.0	179.00	VERTICAL
1709.000000	26.30	-3.9	54.0	27.7	AV	129.0	208.00	VERTICAL
1860.000000	31.30	-2.6	54.0	22.7	AV	150.0	294.00	VERTICAL
2122.500000	28.80	-0.8	54.0	25.2	AV	100.0	203.00	VERTICAL
5305.500000	34.30	6.2	54.0	19.7	AV	100.0	164.00	VERTICAL
7483.000000	38.80	11.4	54.0	15.2	AV	100.0	262.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
Standby	7476.50	38.50	Horizontal	54.00	15.5	AV
Test Results				Pass		

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

Short Description: FCC PART 15 Class B Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average

***MEASUREMENT RESULT: "RICO1105436_fin"***

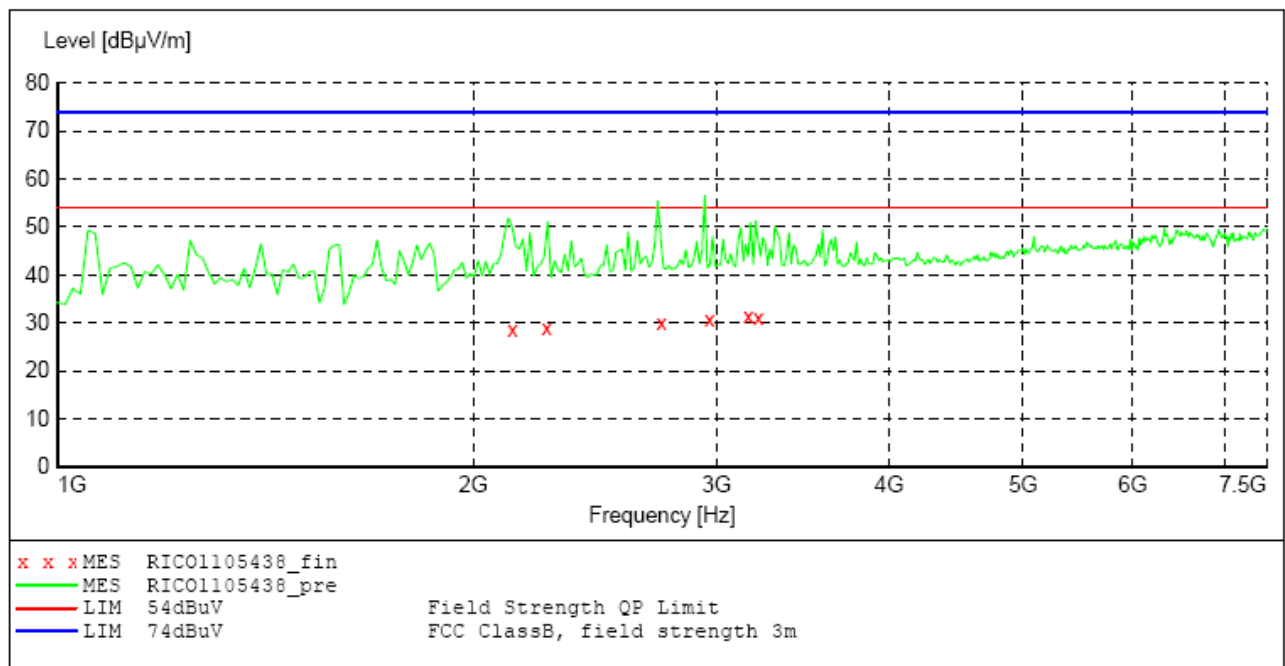
11/5/2011 4:27PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1064.500000	31.00	-9.2	54.0	23.0	AV	136.0	192.00	HORIZONTAL
1260.500000	32.10	-7.6	54.0	21.9	AV	119.0	222.00	HORIZONTAL
1595.000000	31.40	-5.0	54.0	22.6	AV	142.0	142.00	HORIZONTAL
1710.500000	26.00	-3.8	54.0	28.0	AV	130.0	76.00	HORIZONTAL
5083.500000	34.40	5.8	54.0	19.6	AV	100.0	208.00	HORIZONTAL
7476.500000	38.50	11.4	54.0	15.5	AV	150.0	114.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
Copy + NIC PING	3164.00	31.60	Vertical	54.00	22.4	AV
Test Results				Pass		

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

Short Description: FCC PART 15 Class B 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: "RICO1105438_fin"***

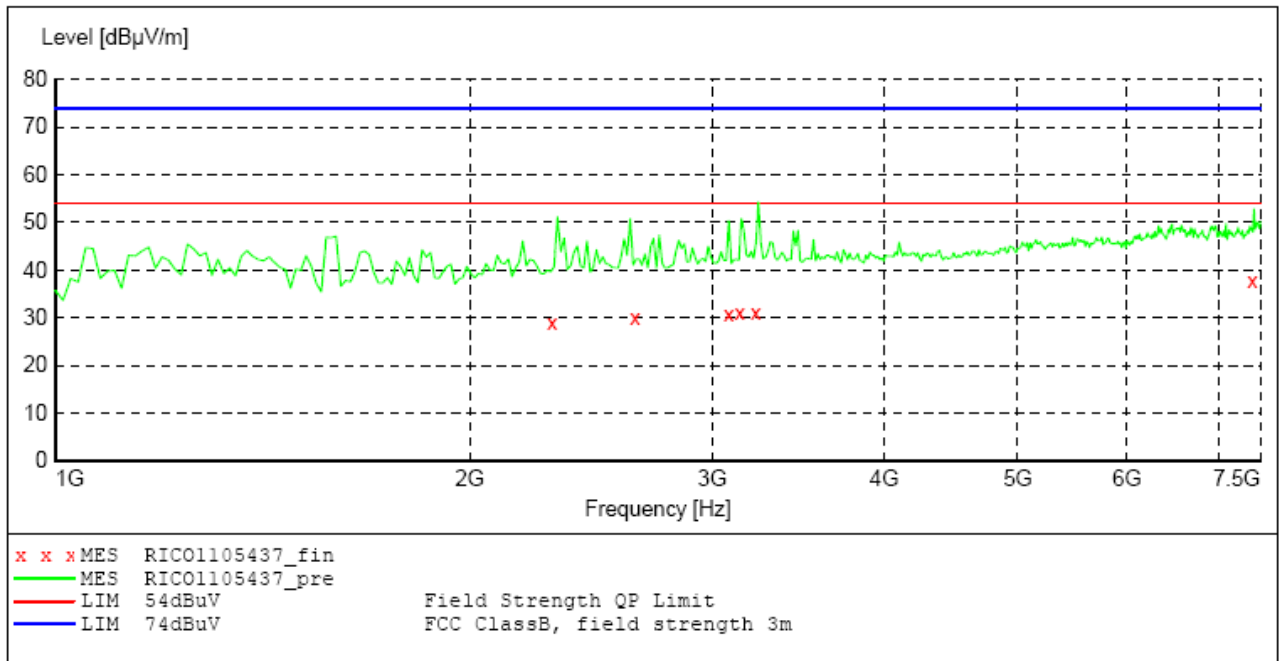
11/5/2011 4:45PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
2135.500000	28.80	-0.7	54.0	25.2	AV	143.0	299.00	VERTICAL
2260.000000	28.90	-0.2	54.0	25.1	AV	100.0	199.00	VERTICAL
2736.500000	29.90	1.5	54.0	24.1	AV	131.0	44.00	VERTICAL
2964.000000	30.90	2.0	54.0	23.1	AV	122.0	212.00	VERTICAL
3164.000000	31.60	2.3	54.0	22.4	AV	143.0	178.00	VERTICAL
3218.000000	31.20	2.3	54.0	22.8	AV	100.0	253.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
Copy + NIC PING	7400.00	37.90	Horizontal	54.00	16.1	AV
Test Results				Pass		

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

Short Description: FCC PART 15 Class B 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: "RICO1105437_fin"***

11/5/2011 4:37PM

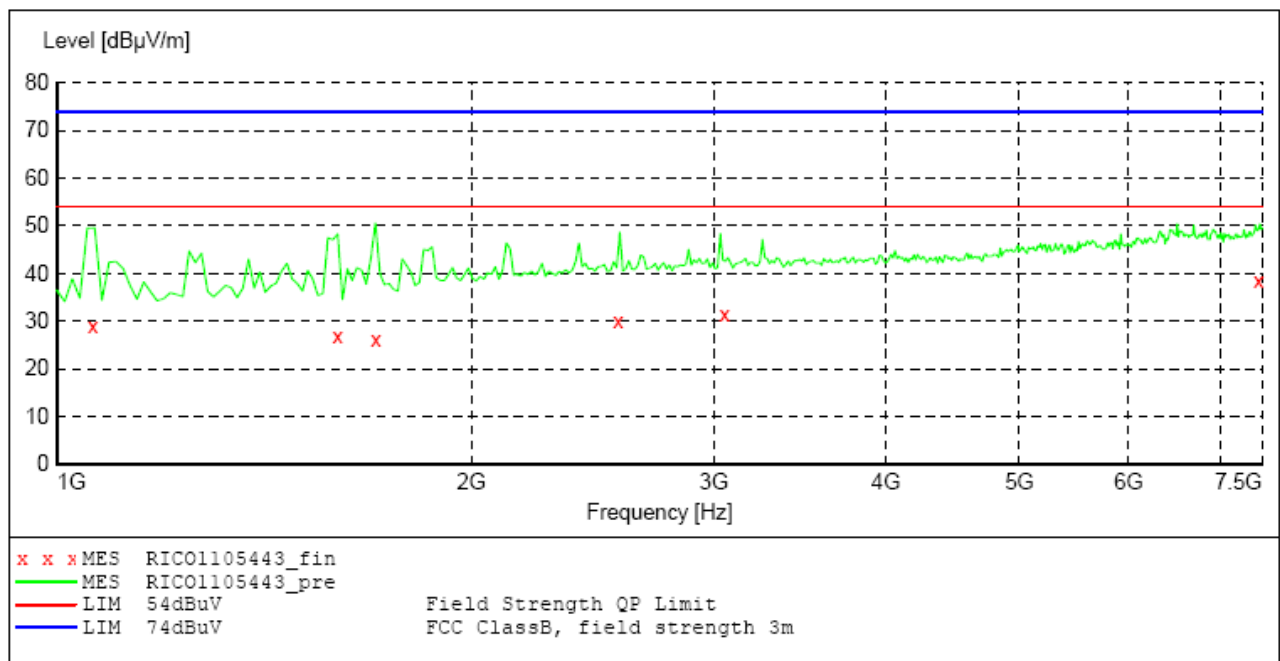
Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
2295.000000	29.10	0.0	54.0	24.9	AV	123.0	162.00	HORIZONTAL
2635.500000	30.00	1.2	54.0	24.0	AV	147.0	169.00	HORIZONTAL
3084.500000	30.70	2.2	54.0	23.3	AV	118.0	63.00	HORIZONTAL
3142.000000	31.20	2.3	54.0	22.8	AV	100.0	93.00	HORIZONTAL
3226.500000	31.00	2.3	54.0	23.0	AV	150.0	286.00	HORIZONTAL
7400.000000	37.90	11.0	54.0	16.1	AV	150.0	270.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
Bluetooth Print + Scan to Media(USB)	7462.00	38.60	Vertical	54.00	15.4	AV
Test Results				Pass		

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

Short Description: FCC PART 15 Class B 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: "RICO1105443_fin"**

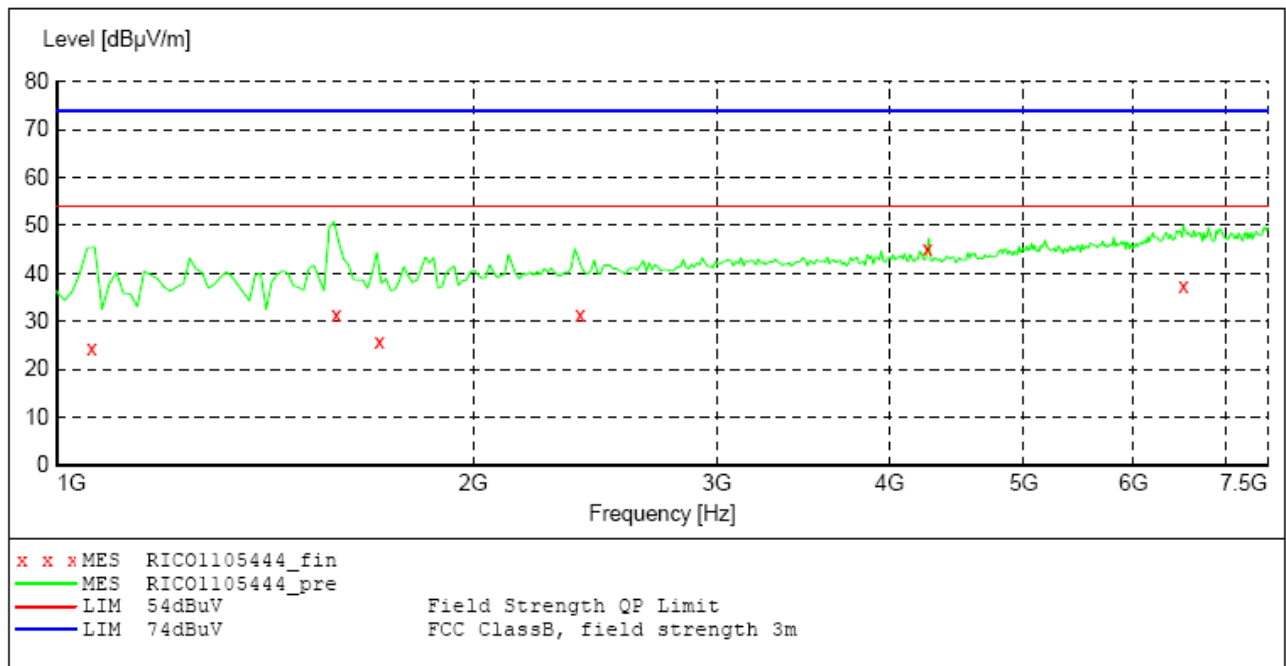
11/5/2011 5:39PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1062.000000	29.00	-9.2	54.0	25.0	AV	114.0	157.00	VERTICAL
1598.500000	26.90	-5.0	54.0	27.1	AV	100.0	237.00	VERTICAL
1704.500000	26.00	-3.9	54.0	28.0	AV	127.0	204.00	VERTICAL
2555.500000	30.00	1.0	54.0	24.0	AV	150.0	219.00	VERTICAL
3053.500000	31.40	2.2	54.0	22.6	AV	100.0	111.00	VERTICAL
7462.000000	38.60	11.3	54.0	15.4	AV	100.0	130.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
Bluetooth Print + Scan to Media(USB)	4258.00	45.30	Horizontal	54.00	8.7	AV
Test Results				Pass		

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

Short Description: FCC PART 15 Class B 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: "RICO1105444_fin"***

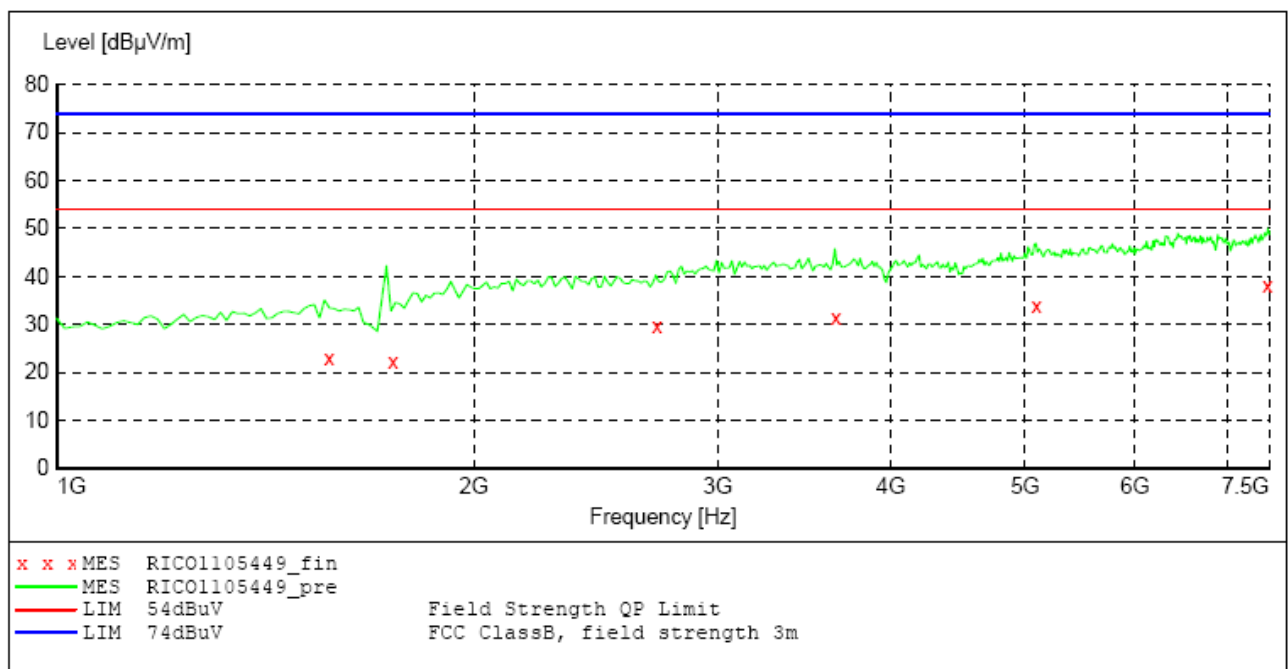
11/5/2011 5:47PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1060.000000	24.30	-9.3	54.0	29.7	AV	118.0	231.00	HORIZONTAL
1592.500000	31.50	-5.1	54.0	22.5	AV	100.0	147.00	HORIZONTAL
1710.500000	25.90	-3.8	54.0	28.1	AV	100.0	272.00	HORIZONTAL
2389.000000	31.60	0.4	54.0	22.4	AV	150.0	172.00	HORIZONTAL
4258.500000	45.30	3.5	54.0	8.7	AV	100.0	50.00	HORIZONTAL
6523.500000	37.50	9.6	54.0	16.5	AV	131.0	96.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
IEEE802.11g Print&Scan	7481.00	38.30	Vertical	54.00	15.7	AV
Test Results				Pass		

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

Short Description: FCC PART 15 Class B 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: "RICO1105449_fin"***

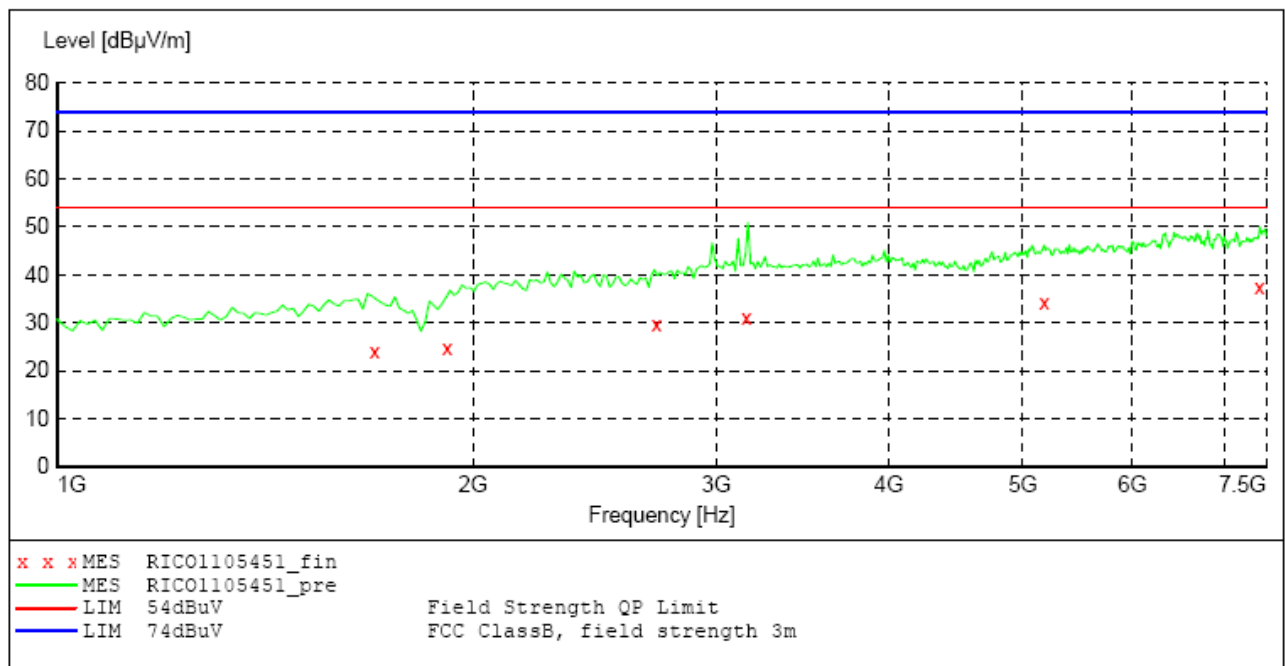
11/5/2011 6:31PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1572.500000	22.90	-5.2	54.0	31.1	AV	100.0	190.00	VERTICAL
1748.000000	22.30	-3.5	54.0	31.7	AV	100.0	223.00	VERTICAL
2711.000000	29.60	1.4	54.0	24.4	AV	100.0	311.00	VERTICAL
3652.500000	31.50	2.9	54.0	22.5	AV	100.0	255.00	VERTICAL
5096.000000	33.80	5.8	54.0	20.2	AV	119.0	5.00	VERTICAL
7481.000000	38.30	11.4	54.0	15.7	AV	150.0	356.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
IEEE802.11g Print&Scan	7419.50	37.30	Horizontal	54.00	16.7	AV
Test Results				Pass		

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

Short Description: FCC PART 15 Class B 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: "RICO1105451_fin"***

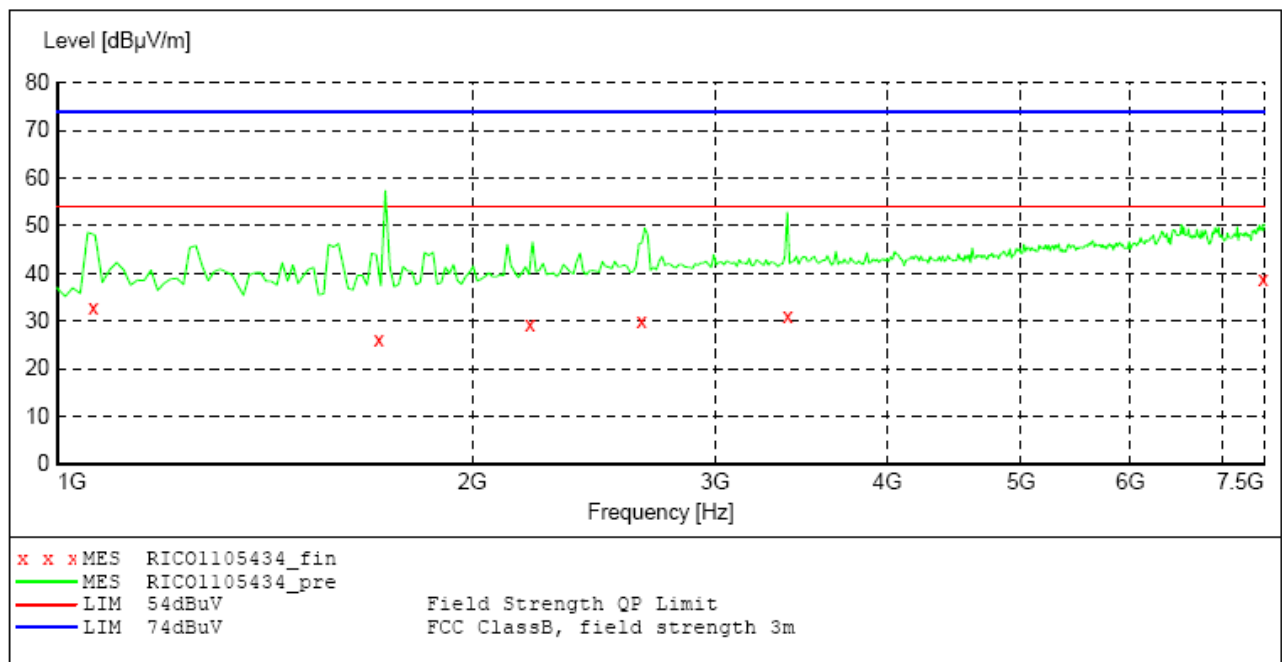
11/5/2011 6:42PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1698.000000	24.00	-4.0	54.0	30.0	AV	150.0	355.00	HORIZONTAL
1916.500000	24.90	-2.2	54.0	29.1	AV	147.0	5.00	HORIZONTAL
2716.000000	29.60	1.4	54.0	24.4	AV	100.0	298.00	HORIZONTAL
3153.000000	31.20	2.3	54.0	22.8	AV	100.0	88.00	HORIZONTAL
5183.500000	34.40	6.0	54.0	19.6	AV	117.0	279.00	HORIZONTAL
7419.500000	37.30	11.1	54.0	16.7	AV	100.0	258.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
USB2.0 Print + IEEE1284 Print + Scan to Media(SD)	7490.50	38.90	Vertical	54.00	15.1	AV
Test Results				Pass		

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

Short Description: FCC PART 15 Class B 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: "RICO1105434_fin"***

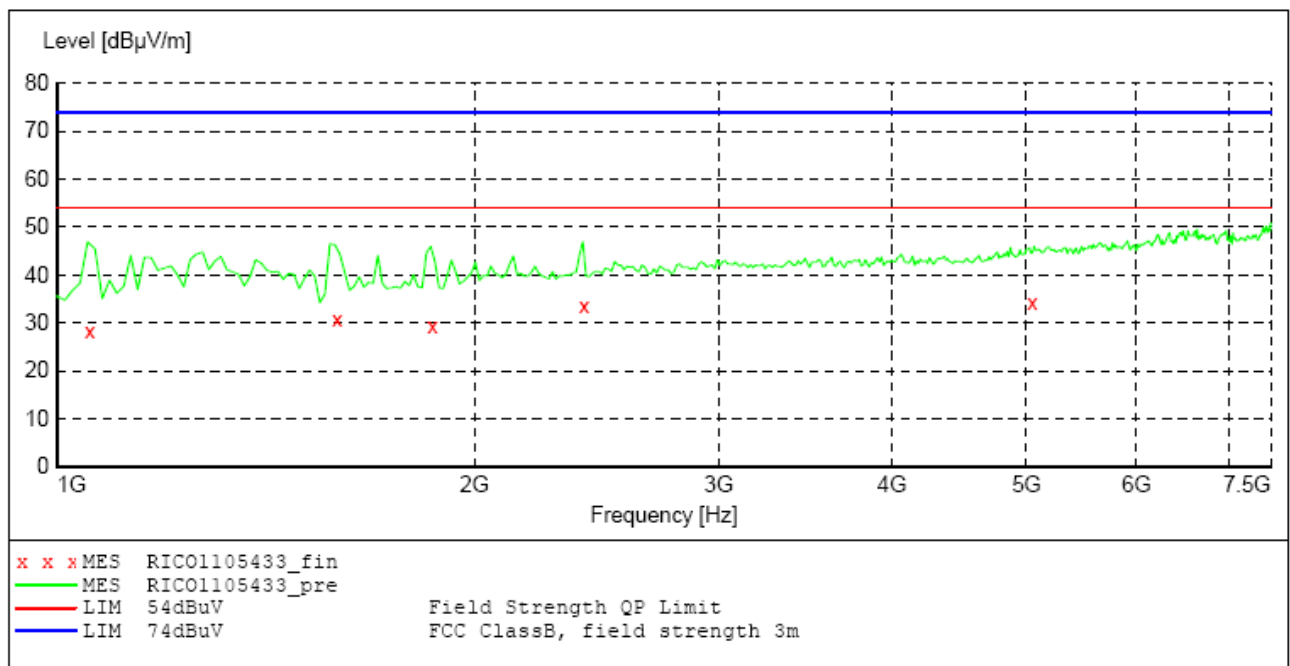
11/5/2011 4:10PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1062.000000	32.90	-9.2	54.0	21.1	AV	150.0	190.00	VERTICAL
1711.000000	26.10	-3.8	54.0	27.9	AV	150.0	241.00	VERTICAL
2203.000000	29.40	-0.4	54.0	24.6	AV	123.0	196.00	VERTICAL
2654.000000	30.20	1.3	54.0	23.8	AV	148.0	51.00	VERTICAL
3386.000000	31.20	2.5	54.0	22.8	AV	150.0	0.00	VERTICAL
7490.500000	38.90	11.5	54.0	15.1	AV	100.0	52.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
USB2.0 Print + IEEE1284 Print + Scan to Media(SD)	7505.00	39.10	Horizontal	54.00	14.9	AV
Test Results				Pass		

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

Short Description: FCC PART 15 Class B 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: "RICO1105433_fin"***

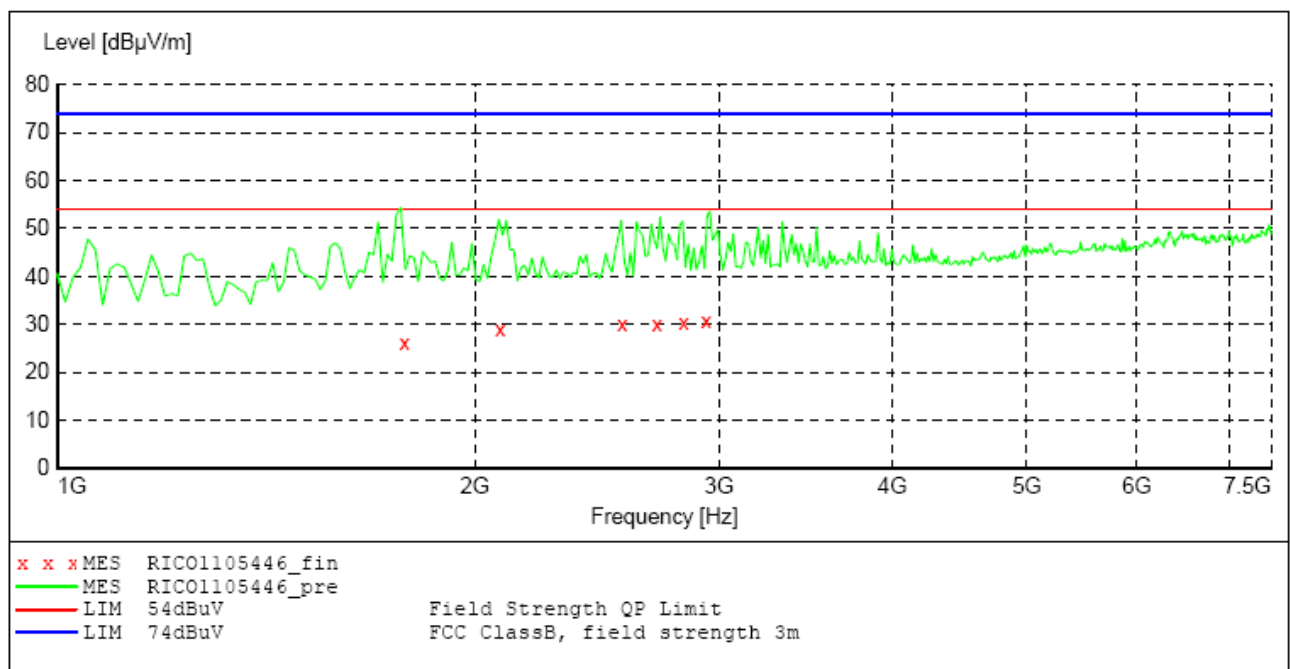
11/5/2011 4:00PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1056.000000	28.40	-9.3	54.0	25.6	AV	100.0	162.00	HORIZONTAL
1592.500000	30.90	-5.1	54.0	23.1	AV	150.0	147.00	HORIZONTAL
1865.000000	29.50	-2.6	54.0	24.5	AV	100.0	249.00	HORIZONTAL
2400.000000	33.50	0.5	54.0	20.5	AV	100.0	235.00	HORIZONTAL
5049.500000	34.30	5.7	54.0	19.7	AV	100.0	91.00	HORIZONTAL
7505.000000	39.10	11.5	54.0	14.9	AV	150.0	257.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
Giga Ping & Scan + USB(Giga) print	2935.00	30.80	Vertical	54.00	23.2	AV
Test Results				Pass		

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

Short Description: FCC PART 15 Class B 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: "RICO1105446_fin"***

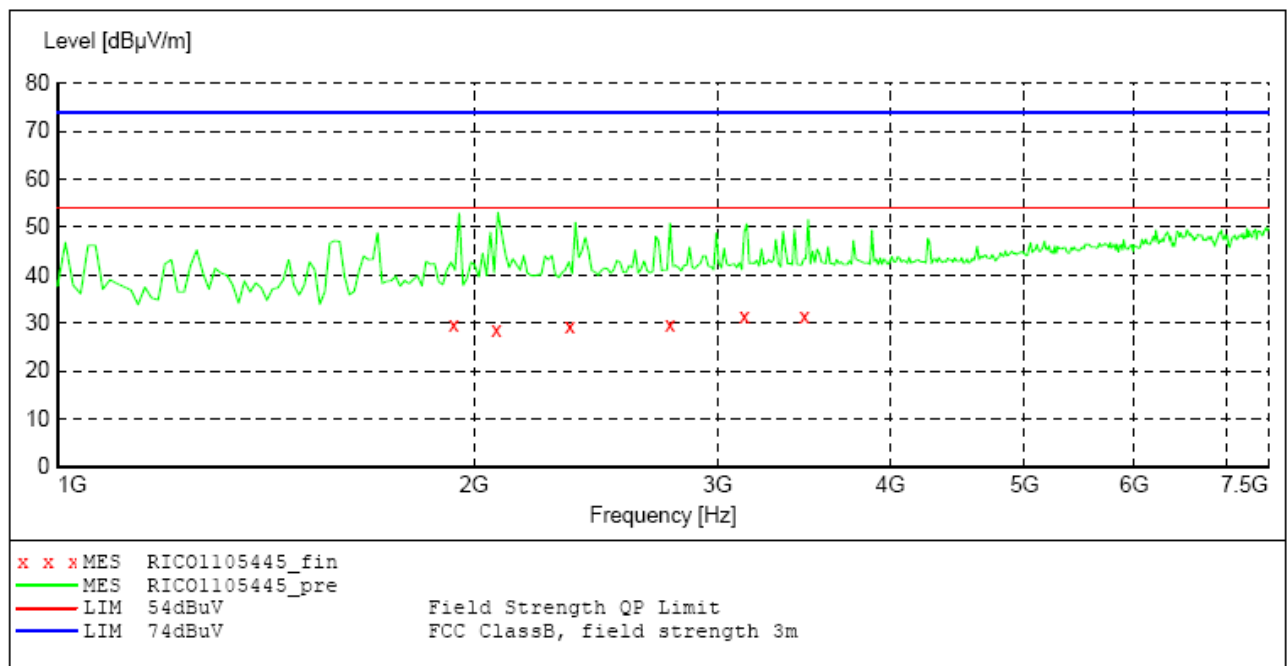
11/5/2011 6:10PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1780.000000	26.30	-3.2	54.0	27.7	AV	100.0	0.00	VERTICAL
2086.500000	28.90	-1.0	54.0	25.1	AV	100.0	308.00	VERTICAL
2554.000000	30.00	1.0	54.0	24.0	AV	115.0	219.00	VERTICAL
2707.000000	30.10	1.4	54.0	23.9	AV	99.0	128.00	VERTICAL
2829.000000	30.50	1.7	54.0	23.5	AV	100.0	79.00	VERTICAL
2935.000000	30.80	2.0	54.0	23.2	AV	150.0	48.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
Giga Ping & Scan + USB(Giga) print	3136.00	31.50	Horizontal	54.00	22.5	AV
Test Results				Pass		

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

Short Description: FCC PART 15 Class B 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: "RICO1105445_fin"***

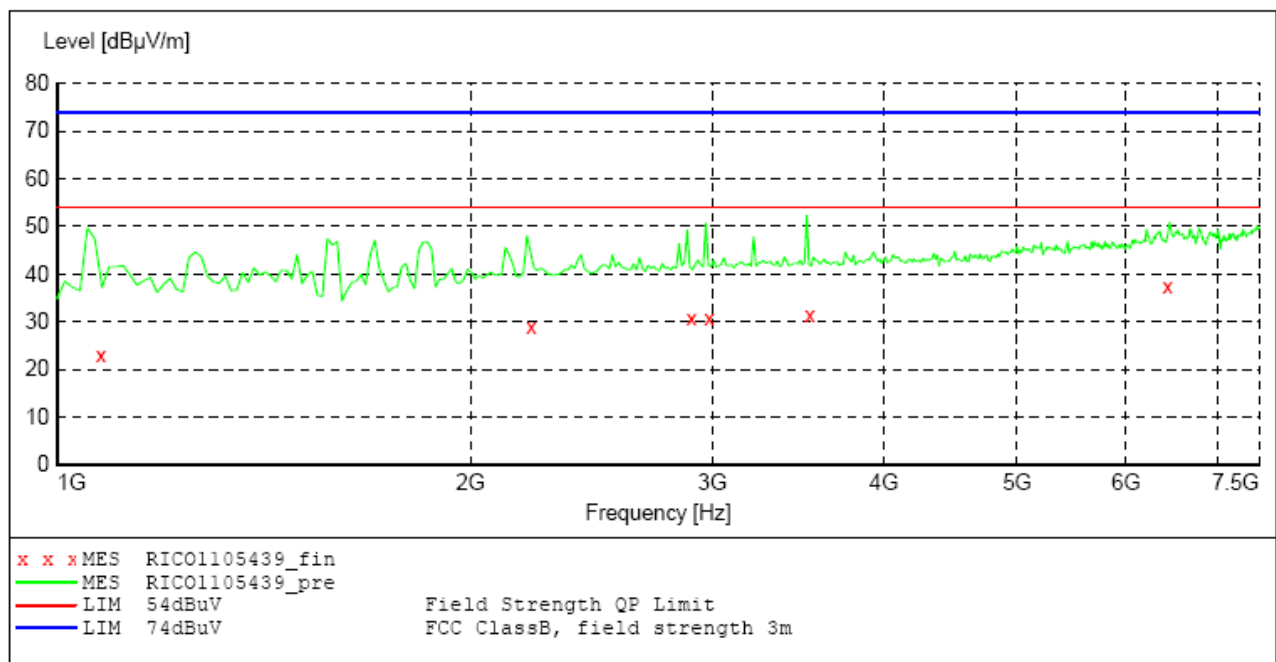
11/5/2011 6:01PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1933.000000	29.80	-2.0	54.0	24.2	AV	150.0	126.00	HORIZONTAL
2076.000000	28.60	-1.0	54.0	25.4	AV	100.0	147.00	HORIZONTAL
2345.500000	29.40	0.2	54.0	24.6	AV	100.0	210.00	HORIZONTAL
2772.500000	29.70	1.6	54.0	24.3	AV	150.0	72.00	HORIZONTAL
3136.000000	31.50	2.3	54.0	22.5	AV	100.0	215.00	HORIZONTAL
3465.000000	31.40	2.6	54.0	22.6	AV	100.0	31.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
G3-TX	6437.00	37.50	Vertical	54.00	16.5	AV
Test Results				Pass		

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

Short Description: FCC PART 15 Class B 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: "RICO1105439_fin"***

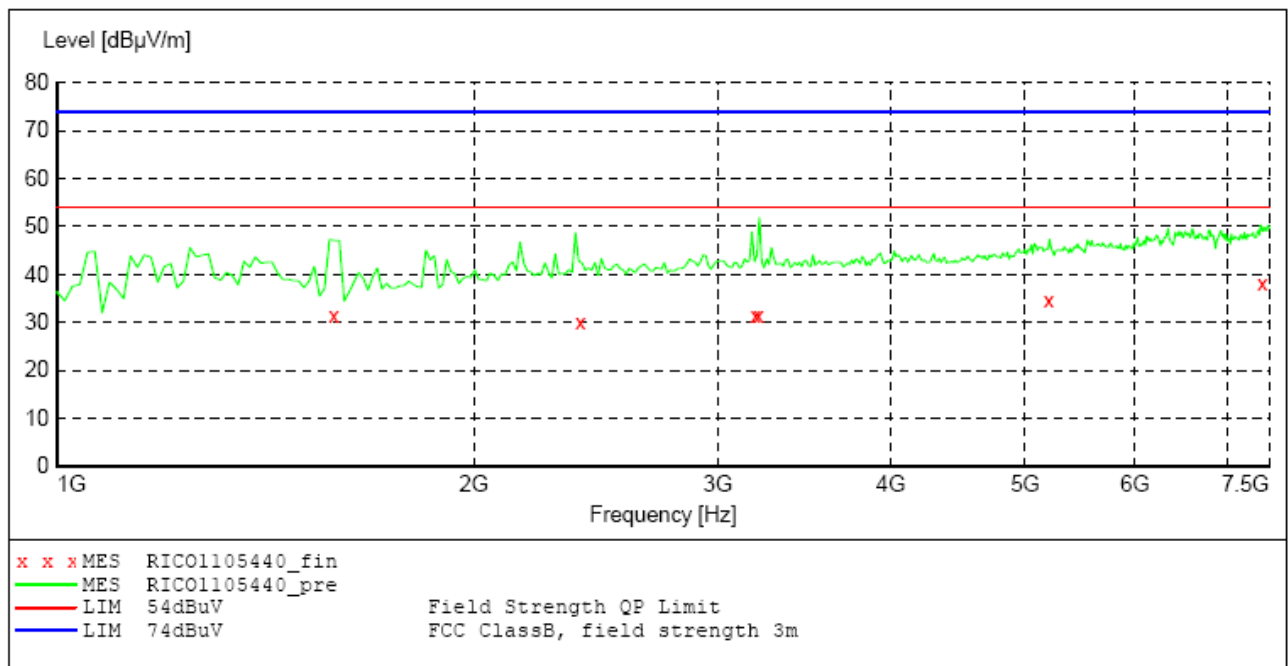
11/5/2011 4:56PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1076.000000	23.10	-9.1	54.0	30.9	AV	100.0	183.00	VERTICAL
2215.000000	28.90	-0.4	54.0	25.1	AV	100.0	284.00	VERTICAL
2896.500000	30.80	1.9	54.0	23.2	AV	100.0	186.00	VERTICAL
2983.500000	30.70	2.1	54.0	23.3	AV	113.0	261.00	VERTICAL
3532.500000	31.30	2.7	54.0	22.7	AV	100.0	357.00	VERTICAL
6437.000000	37.50	9.3	54.0	16.5	AV	100.0	225.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
G3-TX	7420.00	38.00	Horizontal	54.00	16.0	AV
Test Results				Pass		

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

Short Description: FCC PART 15 Class B 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: "RICO1105440_fin"***

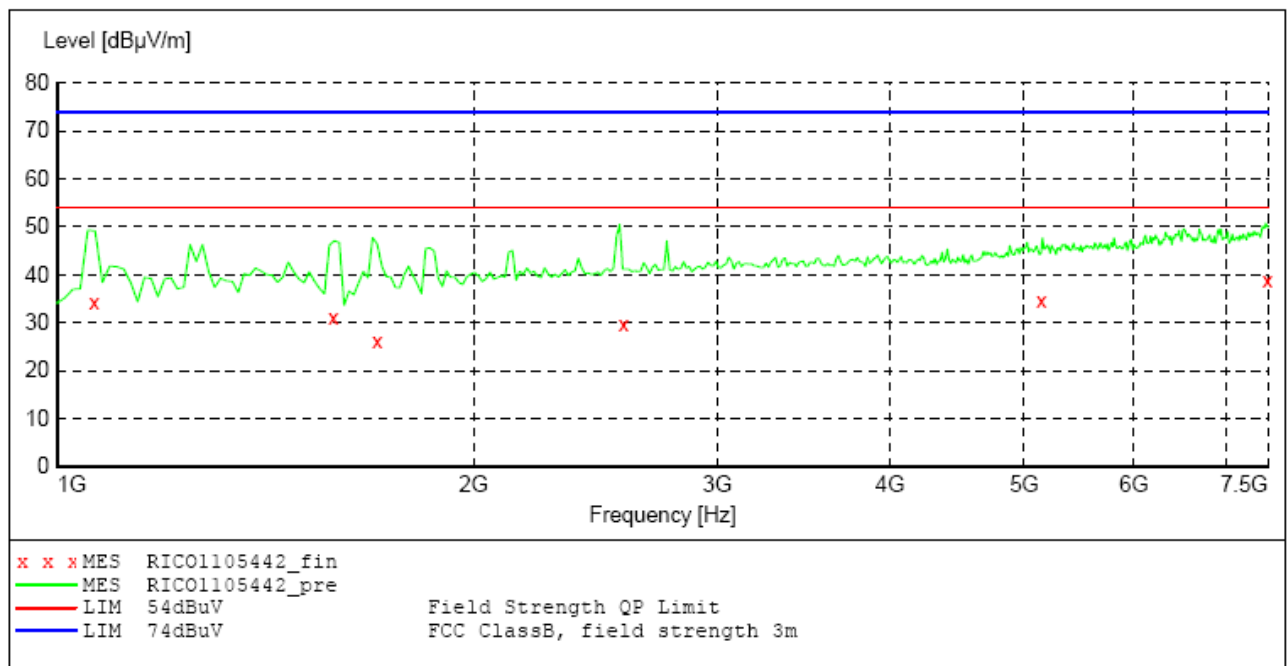
11/5/2011 5:04PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1584.500000	31.50	-5.1	54.0	22.5	AV	100.0	227.00	HORIZONTAL
2388.000000	29.90	0.4	54.0	24.1	AV	150.0	212.00	HORIZONTAL
3195.000000	31.30	2.3	54.0	22.7	AV	100.0	95.00	HORIZONTAL
3210.000000	31.30	2.3	54.0	22.7	AV	122.0	217.00	HORIZONTAL
5202.000000	34.50	6.0	54.0	19.5	AV	150.0	69.00	HORIZONTAL
7420.000000	38.00	11.1	54.0	16.0	AV	150.0	270.00	HORIZONTAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
G3-RX	7495.00	39.00	Vertical	54.00	15.0	AV
Test Results				Pass		

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

Short Description: FCC PART 15 Class B 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: "RICO1105442_fin"***

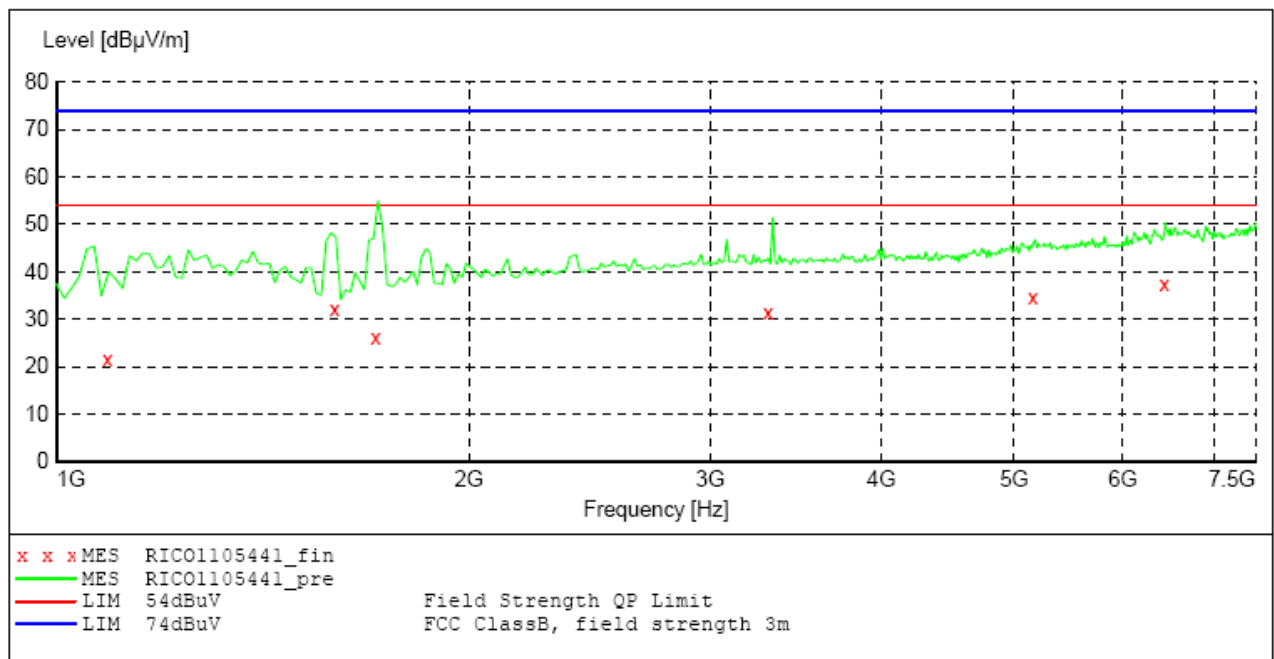
11/5/2011 5:22PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1064.000000	34.10	-9.2	54.0	19.9	AV	150.0	178.00	VERTICAL
1583.500000	31.10	-5.1	54.0	22.9	AV	118.0	196.00	VERTICAL
1704.000000	26.20	-3.9	54.0	27.8	AV	100.0	218.00	VERTICAL
2566.000000	29.60	1.1	54.0	24.4	AV	127.0	201.00	VERTICAL
5147.500000	34.50	5.9	54.0	19.5	AV	100.0	0.00	VERTICAL
7495.500000	39.00	11.5	54.0	15.0	AV	150.0	131.00	VERTICAL

Test Condition	Maximum Radiated Emissions		Polarization	Limit (dBuV/m)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV/m)				
G3-RX	6438.00	37.40	Horizontal	54.00	16.6	AV
Test Results				Pass		

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

Short Description: FCC PART 15 Class B 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: "RICO1105441_fin"***

11/5/2011 5:13PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
1089.000000	21.70	-9.0	54.0	32.3	AV	136.0	166.00	HORIZONTAL
1595.500000	32.10	-5.0	54.0	21.9	AV	100.0	162.00	HORIZONTAL
1710.000000	26.30	-3.9	54.0	27.7	AV	150.0	214.00	HORIZONTAL
3307.000000	31.40	2.4	54.0	22.6	AV	118.0	348.00	HORIZONTAL
5160.500000	34.60	5.9	54.0	19.4	AV	150.0	3.00	HORIZONTAL
6438.000000	37.40	9.3	54.0	16.6	AV	100.0	236.00	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, Copy, Bluetooth Print + Scan to Media(USB), IEEE802.11g Print&Scan, USB2.0 Print + IEEE1284 Print + Scan to Media(SD), Giga Print & scan + USB(Giga)Print, G3 Tx, G3 Rx, NIC Print&Scan 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

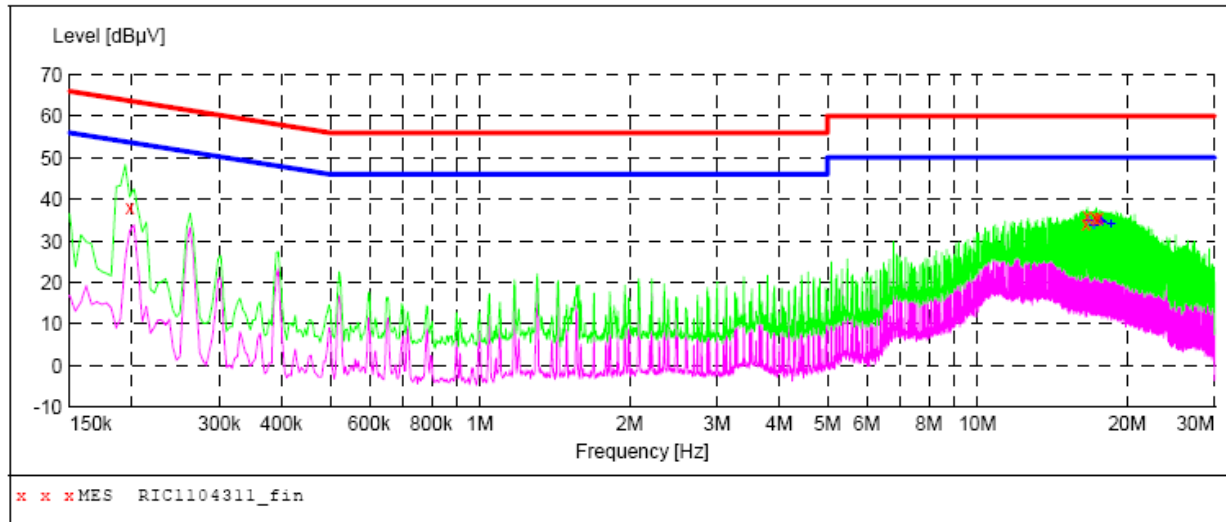
Level=read value+transducer

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

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
Standby	16.666	36.1	L	60.00	10.40	23.90	QP
	16.766	35.1	L	50.00	10.40	14.90	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RIC1104311_fin"**

11/4/2011 2:25PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.198000	38.10	10.1	64	25.6	QP	L1	GND
16.562000	34.20	10.4	60	25.8	QP	L1	GND
16.666000	36.10	10.4	60	23.9	QP	L1	GND
17.262000	35.80	10.4	60	24.2	QP	L1	GND
17.362000	35.40	10.4	60	24.6	QP	L1	GND
17.562000	35.90	10.4	60	24.1	QP	L1	GND

MEASUREMENT RESULT: "RIC1104311_fin2"

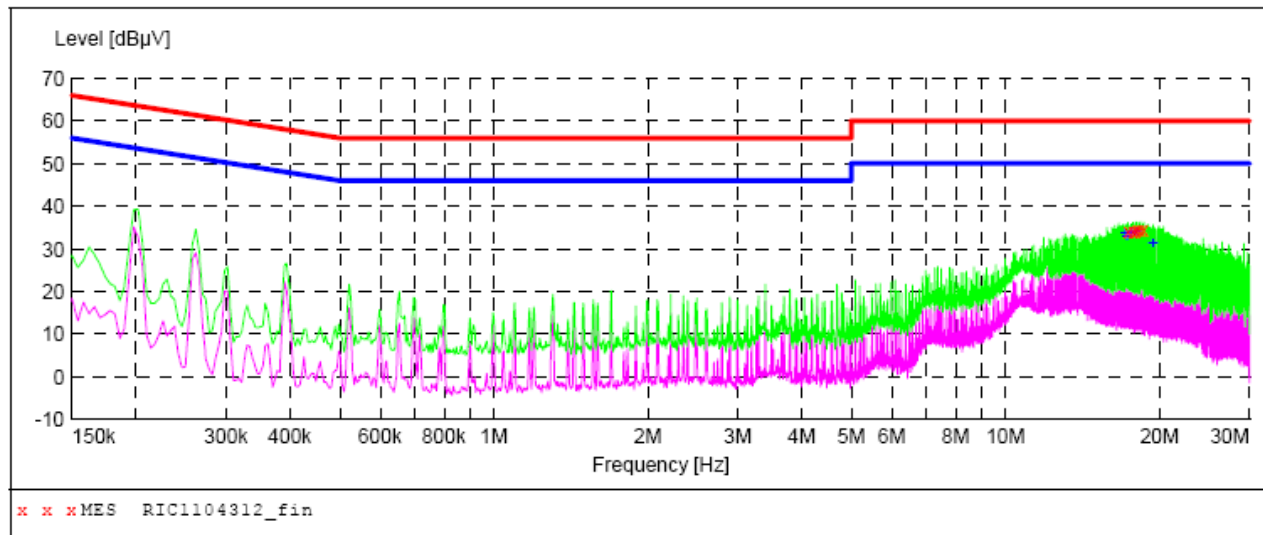
11/4/2011 2:25PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
16.766000	35.10	10.4	50	14.9	AV	L1	GND
17.166000	33.50	10.4	50	16.5	AV	L1	GND
17.662000	34.80	10.4	50	15.2	AV	L1	GND
17.762000	34.80	10.4	50	15.2	AV	L1	GND
17.862000	34.70	10.4	50	15.3	AV	L1	GND
18.562000	34.30	10.4	50	15.7	AV	L1	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
Standby	18.066	34.60	N	60.00	10.40	25.40	QP
	17.666	34.00	N	50.00	10.40	16.00	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RIC1104312_fin"**

11/4/2011 2:30PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
17.366000	33.90	10.4	60	26.1	QP	N	GND
17.766000	34.30	10.4	60	25.7	QP	N	GND
17.966000	34.30	10.4	60	25.7	QP	N	GND
18.066000	34.60	10.4	60	25.4	QP	N	GND
18.366000	34.40	10.4	60	25.6	QP	N	GND
18.662000	34.40	10.4	60	25.6	QP	N	GND

MEASUREMENT RESULT: "RIC1104312_fin2"

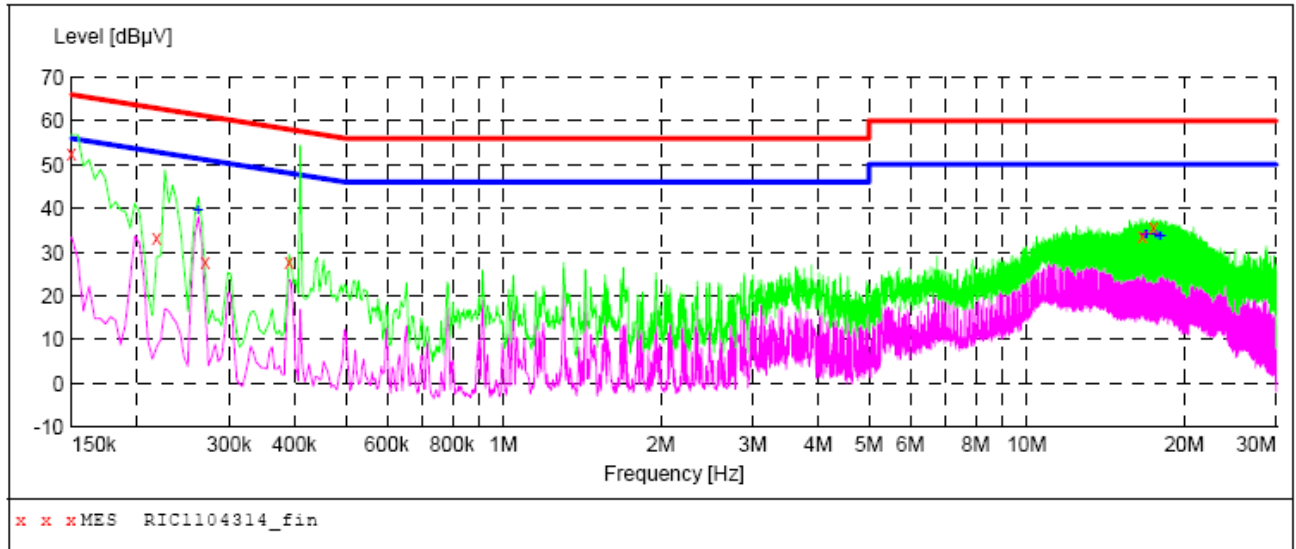
11/4/2011 2:30PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
17.166000	33.50	10.4	50	16.5	AV	N	GND
17.266000	32.80	10.4	50	17.2	AV	N	GND
17.566000	33.80	10.4	50	16.2	AV	N	GND
17.666000	34.00	10.4	50	16.0	AV	N	GND
18.066000	33.90	10.4	50	16.1	AV	N	GND
19.462000	31.50	10.4	50	18.5	AV	N	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
Copy	0.150	52.70	L	66.00	10.10	13.30	QP
	0.262	39.80	L	51.00	10.10	11.60	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RIC1104314_fin"**

11/4/2011 2:46PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	52.70	10.1	66	13.3	QP	L1	GND
0.218000	33.30	10.1	63	29.6	QP	L1	GND
0.270000	27.80	10.1	61	33.3	QP	L1	GND
0.390000	27.80	10.1	58	30.3	QP	L1	GND
16.670000	33.50	10.4	60	26.5	QP	L1	GND
17.466000	35.60	10.4	60	24.4	QP	L1	GND

MEASUREMENT RESULT: "RIC1104314_fin2"

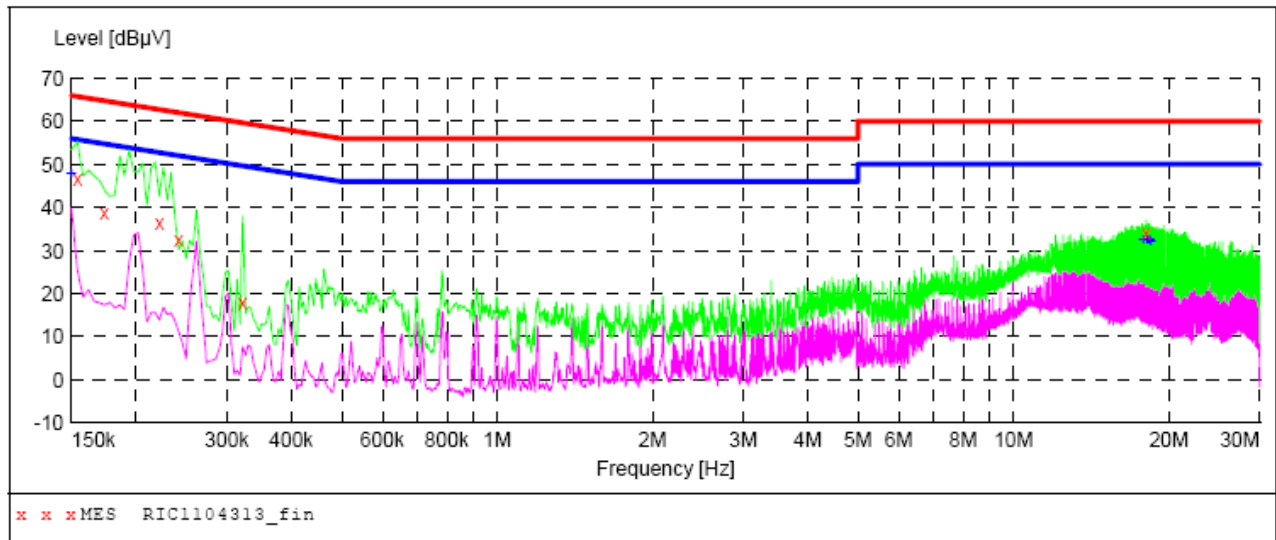
11/4/2011 2:46PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.262000	39.80	10.1	51	11.6	AV	L1	GND
16.866000	34.00	10.4	50	16.0	AV	L1	GND
16.966000	34.20	10.4	50	15.8	AV	L1	GND
17.666000	34.10	10.4	50	15.9	AV	L1	GND
17.962000	33.50	10.4	50	16.5	AV	L1	GND
18.062000	33.70	10.4	50	16.3	AV	L1	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
Copy	0.154	46.90	N	66.00	10.10	18.90	QP
	0.150	47.80	N	56.00	10.10	8.20	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RIC1104313_fin"**

11/4/2011 2:36PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.154000	46.90	10.1	66	18.9	QP	N	GND
0.174000	38.90	10.1	65	25.9	QP	N	GND
0.222000	36.40	10.1	63	26.3	QP	N	GND
0.242000	32.60	10.1	62	29.4	QP	N	GND
0.322000	18.10	10.1	60	41.6	QP	N	GND
18.066000	34.00	10.4	60	26.0	QP	N	GND

MEASUREMENT RESULT: "RIC1104313_fin2"

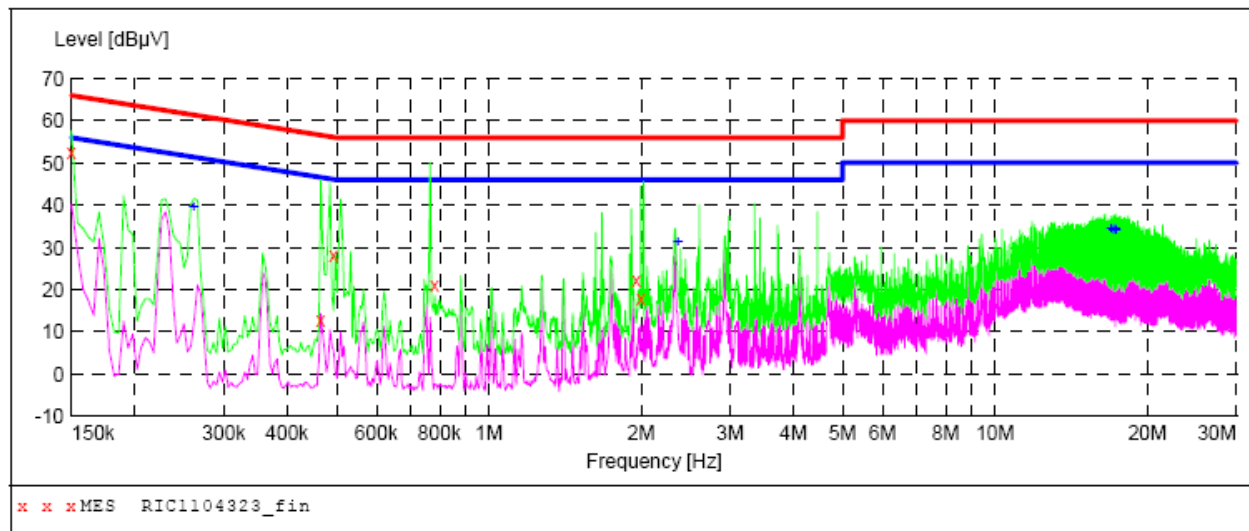
11/4/2011 2:36PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	47.80	10.1	56	8.2	AV	N	GND
17.866000	32.60	10.4	50	17.4	AV	N	GND
18.166000	32.60	10.4	50	17.4	AV	N	GND
18.266000	32.50	10.4	50	17.5	AV	N	GND
18.366000	32.40	10.4	50	17.6	AV	N	GND
18.466000	32.10	10.4	50	17.9	AV	N	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
Bluetooth Print+Scan to Media(USB)	0.150	52.70	L	66.00	10.10	13.30	QP
	0.262	39.70	L	51.00	10.10	11.70	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "RIC1104323_fin"

11/4/2011 3:54PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	52.70	10.1	66	13.3	QP	L1	GND
0.466000	12.70	10.1	57	43.9	QP	L1	GND
0.494000	28.00	10.1	56	28.1	QP	L1	GND
0.782000	21.30	10.1	56	34.7	QP	L1	GND
1.958000	22.20	10.2	56	33.8	QP	L1	GND
1.998000	18.00	10.2	56	38.0	QP	L1	GND

MEASUREMENT RESULT: "RIC1104323_fin2"

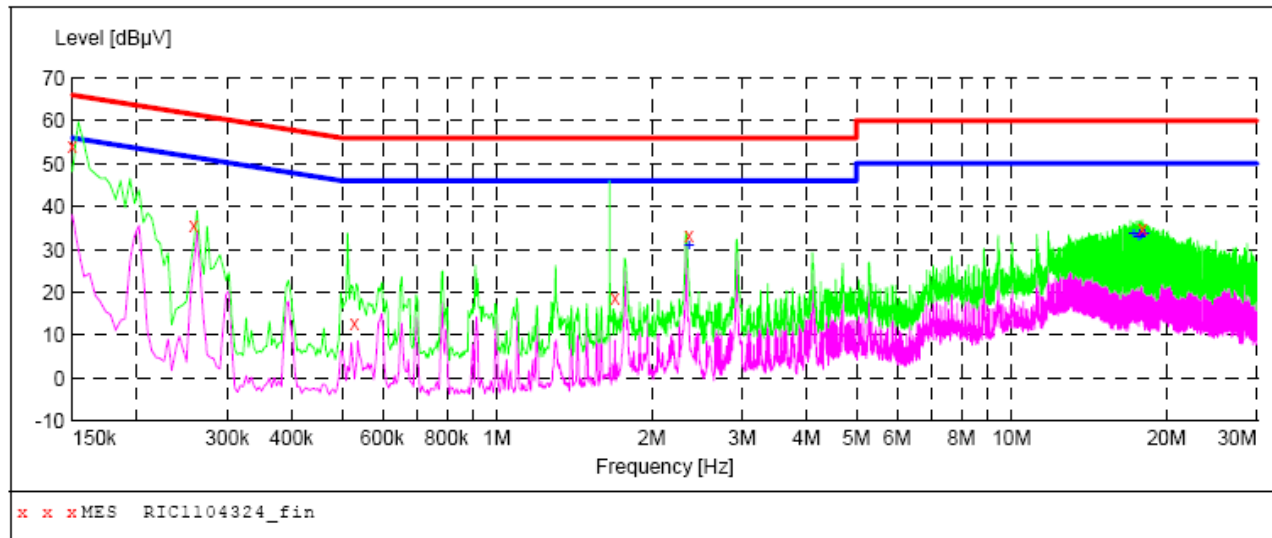
11/4/2011 3:54PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.262000	39.70	10.1	51	11.7	AV	L1	GND
2.366000	31.50	10.2	46	14.5	AV	L1	GND
16.966000	34.60	10.4	50	15.4	AV	L1	GND
17.166000	34.30	10.4	50	15.7	AV	L1	GND
17.266000	34.60	10.4	50	15.4	AV	L1	GND
17.366000	34.20	10.4	50	15.8	AV	L1	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
Bluetooth Print+Scan to Media(USB)	0.150	54.40	N	66.00	10.10	11.60	QP
	2.366	31.10	N	46.00	10.20	14.90	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RIC1104324_fin"**

11/4/2011 3:57PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	54.40	10.1	66	11.6	QP	N	GND
0.258000	35.90	10.1	62	25.6	QP	N	GND
0.530000	13.00	10.1	56	43.0	QP	N	GND
1.698000	18.60	10.2	56	37.4	QP	N	GND
2.366000	33.30	10.2	56	22.7	QP	N	GND
17.962000	35.00	10.4	60	25.0	QP	N	GND

MEASUREMENT RESULT: "RIC1104324_fin2"

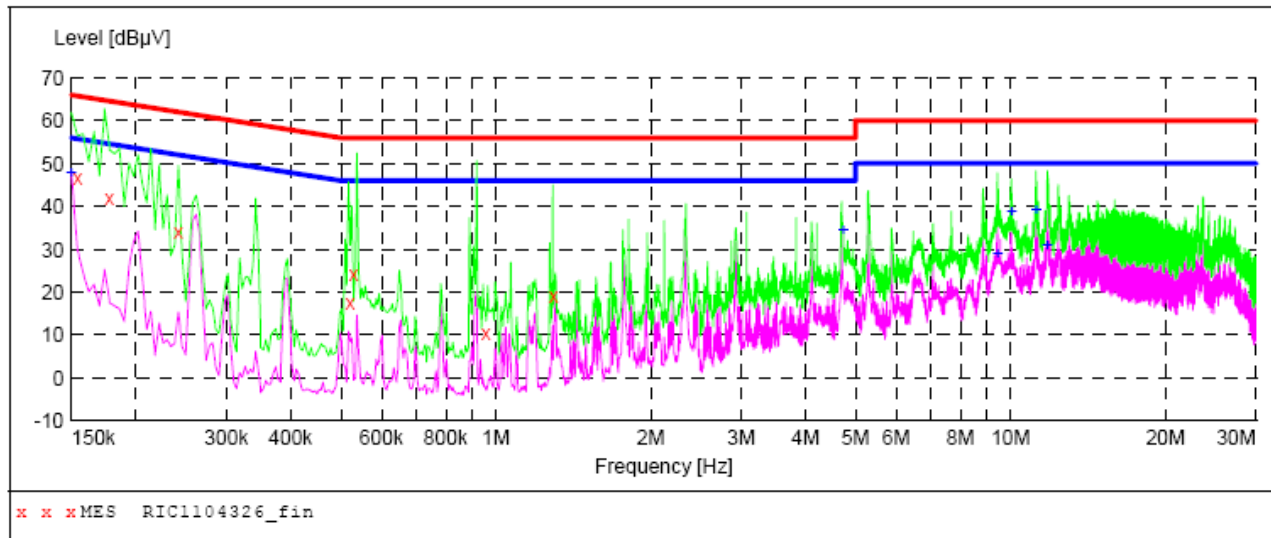
11/4/2011 3:57PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
2.366000	31.10	10.2	46	14.9	AV	N	GND
17.266000	33.70	10.4	50	16.3	AV	N	GND
17.662000	33.10	10.4	50	16.9	AV	N	GND
17.762000	33.60	10.4	50	16.4	AV	N	GND
17.862000	33.20	10.4	50	16.8	AV	N	GND
18.162000	33.60	10.4	50	16.4	AV	N	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
IEEE802.11g Print&Scan	0.154	46.80	L	66.00	10.10	19.00	QP
	0.150	47.80	L	56.00	10.10	8.20	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RIC1104326_fin"**

11/4/2011 4:18PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.154000	46.80	10.1	66	19.0	QP	L1	GND
0.178000	41.90	10.1	65	22.7	QP	L1	GND
0.242000	33.90	10.1	62	28.1	QP	L1	GND
0.522000	17.70	10.1	56	38.3	QP	L1	GND
0.530000	24.20	10.1	56	31.8	QP	L1	GND
0.958000	10.40	10.1	56	45.6	QP	L1	GND
1.298000	19.00	10.2	56	37.0	QP	L1	GND

MEASUREMENT RESULT: "RIC1104326_fin2"

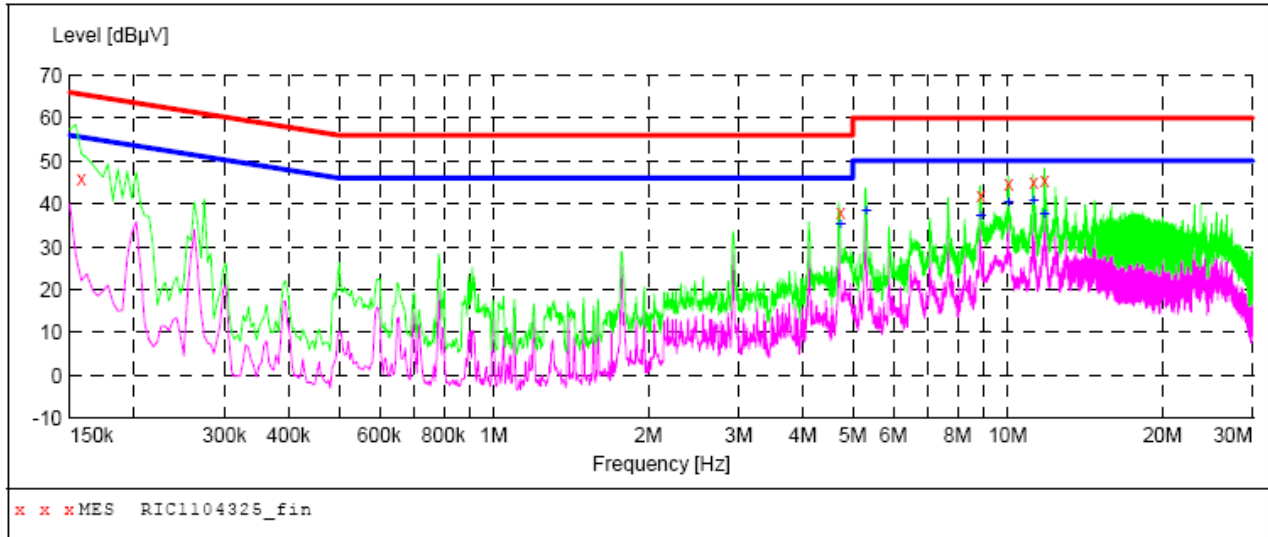
11/4/2011 4:18PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	47.80	10.1	56	8.2	AV	L1	GND
4.734000	34.60	10.2	46	11.4	AV	L1	GND
9.466000	29.20	10.4	50	20.8	AV	L1	GND
10.054000	38.80	10.5	50	11.2	AV	L1	GND
11.238000	39.20	10.4	50	10.8	AV	L1	GND
11.802000	31.00	10.4	50	19.0	AV	L1	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
IEEE802.11g Print&Scan	11.834	45.70	N	60.00	10.40	14.30	QP
	11.424	40.80	N	50.00	10.40	9.20	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RIC1104325_fin"**

11/4/2011 4:12PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.158000	45.80	10.1	66	19.8	QP	N	GND
4.734000	38.20	10.2	56	17.8	QP	N	GND
8.870000	41.90	10.4	60	18.1	QP	N	GND
10.054000	44.60	10.5	60	15.4	QP	N	GND
11.238000	45.00	10.4	60	15.0	QP	N	GND
11.834000	45.70	10.4	60	14.3	QP	N	GND

MEASUREMENT RESULT: "RIC1104325_fin2"

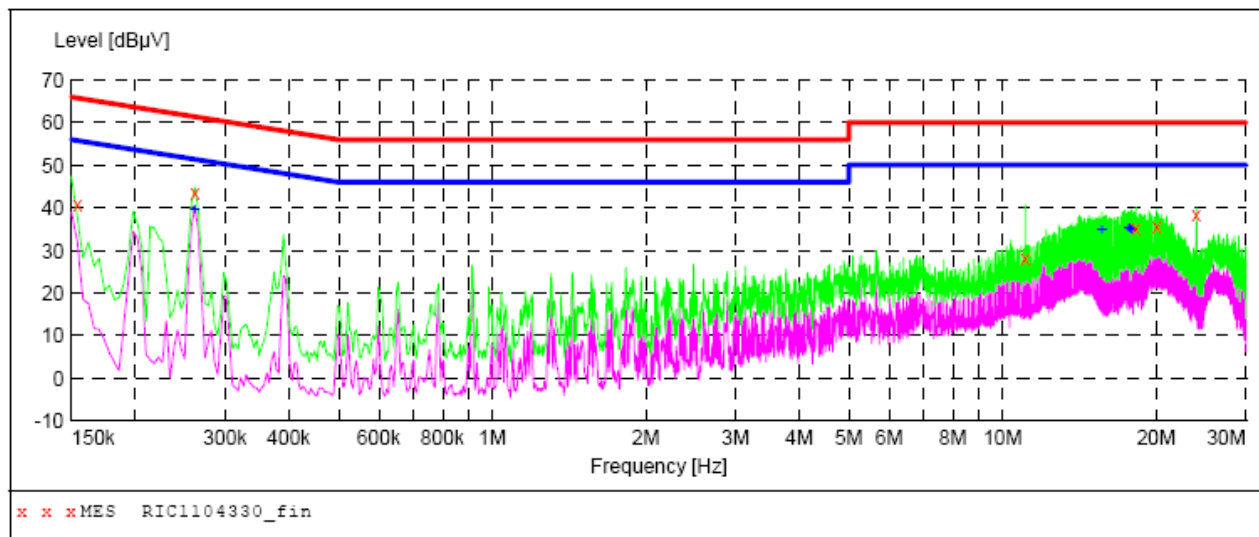
11/4/2011 4:12PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
4.734000	35.50	10.2	46	10.5	AV	N	GND
5.322000	38.30	10.2	50	11.7	AV	N	GND
8.878000	37.20	10.4	50	12.8	AV	N	GND
10.058000	40.60	10.5	50	9.4	AV	N	GND
11.242000	40.80	10.4	50	9.2	AV	N	GND
11.830000	37.80	10.4	50	12.2	AV	N	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
USB2.0 Print + IEEE1284 Print + Scan to Media(SD)	0.2620	43.70	L	61.00	10.10	17.70	QP
	0.2620	39.70	L	51.00	10.10	11.70	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RIC1104330_fin"**

11/4/2011 4:54PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.154000	41.00	10.1	66	24.8	QP	L1	GND
0.262000	43.70	10.1	61	17.7	QP	L1	GND
11.078000	28.30	10.4	60	31.7	QP	L1	GND
18.270000	35.40	10.4	60	24.6	QP	L1	GND
20.062000	35.70	10.4	60	24.3	QP	L1	GND
24.002000	38.40	10.7	60	21.6	QP	L1	GND

MEASUREMENT RESULT: "RIC1104330_fin2"

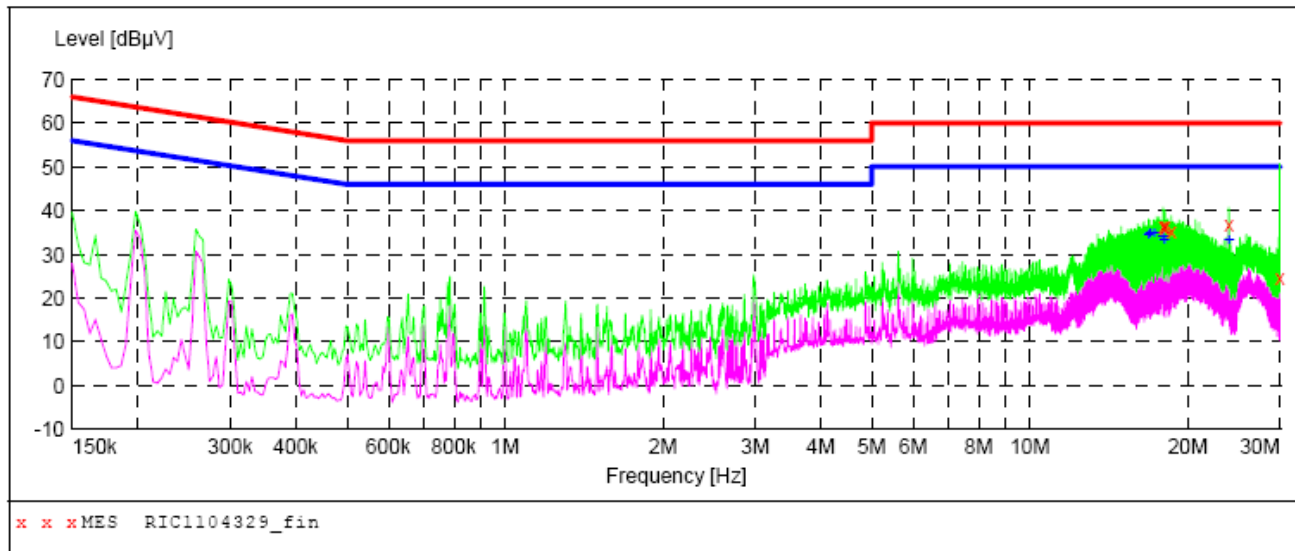
11/4/2011 4:54PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.262000	39.70	10.1	51	11.7	AV	L1	GND
15.670000	34.80	10.4	50	15.2	AV	L1	GND
17.666000	35.40	10.4	50	14.6	AV	L1	GND
17.766000	35.50	10.4	50	14.5	AV	L1	GND
17.866000	35.10	10.4	50	14.9	AV	L1	GND
17.966000	35.10	10.4	50	14.9	AV	L1	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
USB2.0 Print + IEEE1284 Print + Scan to Media(SD)	24.002	37.00	N	60.00	10.70	23.00	QP
	17.270	34.90	N	50.00	10.40	15.10	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RIC1104329_fin"**

11/4/2011 4:51PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
17.970000	36.30	10.4	60	23.7	QP	N	GND
18.070000	36.10	10.4	60	23.9	QP	N	GND
18.166000	36.30	10.4	60	23.7	QP	N	GND
18.666000	35.40	10.4	60	24.6	QP	N	GND
24.002000	37.00	10.7	60	23.0	QP	N	GND
29.946000	24.70	10.9	60	35.3	QP	N	GND

MEASUREMENT RESULT: "RIC1104329_fin2"

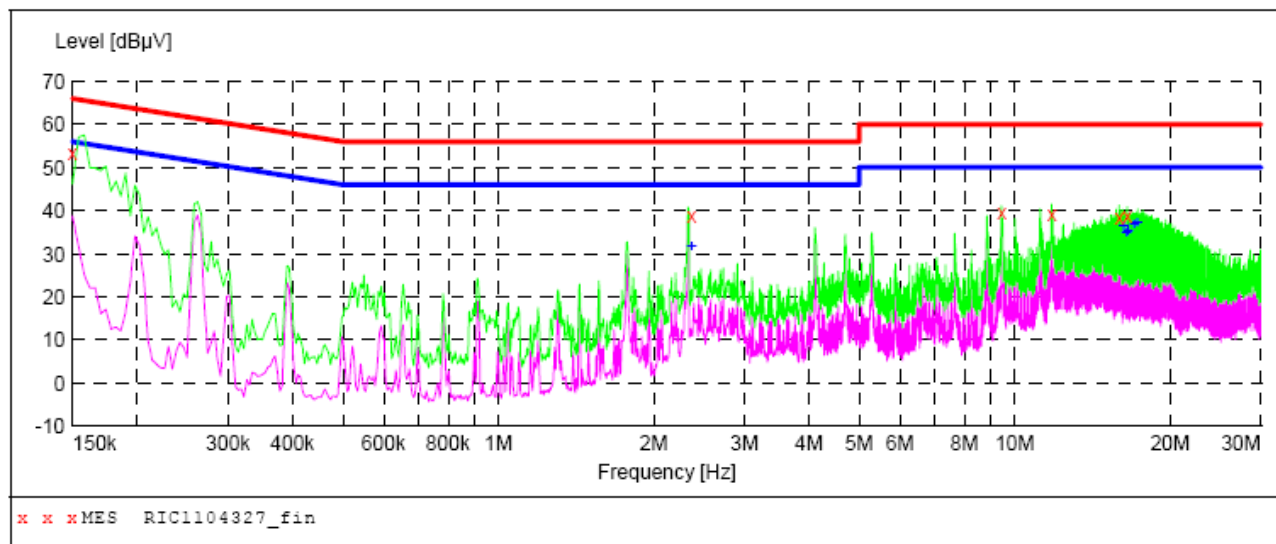
11/4/2011 4:51PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
16.870000	34.50	10.4	50	15.5	AV	N	GND
16.970000	34.80	10.4	50	15.2	AV	N	GND
17.270000	34.90	10.4	50	15.1	AV	N	GND
17.970000	34.30	10.4	50	15.7	AV	N	GND
18.066000	33.40	10.4	50	16.6	AV	N	GND
24.002000	33.40	10.7	50	16.6	AV	N	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
Giga Print & scan + USB (Giga)Print	0.150	53.30	L	66.00	10.10	12.70	QP
	17.260	37.30	L	50.00	10.40	12.70	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RIC1104327_fin"**

11/4/2011 4:32PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	53.30	10.1	66	12.7	QP	L1	GND
2.370000	38.90	10.2	56	17.1	QP	L1	GND
9.466000	39.50	10.4	60	20.5	QP	L1	GND
11.830000	39.00	10.4	60	21.0	QP	L1	GND
15.970000	38.50	10.4	60	21.5	QP	L1	GND
16.566000	38.80	10.4	60	21.2	QP	L1	GND

MEASUREMENT RESULT: "RIC1104327_fin2"

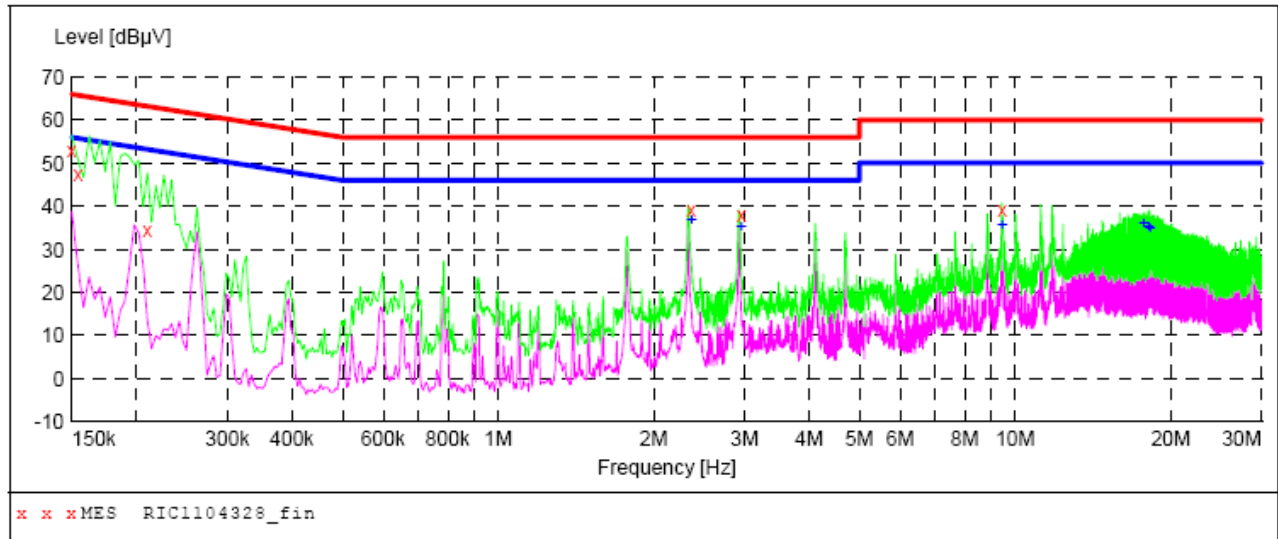
11/4/2011 4:32PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
2.370000	31.90	10.2	46	14.1	AV	L1	GND
16.266000	36.60	10.4	50	13.4	AV	L1	GND
16.470000	34.90	10.4	50	15.1	AV	L1	GND
16.570000	35.40	10.4	50	14.6	AV	L1	GND
17.066000	36.90	10.4	50	13.1	AV	L1	GND
17.266000	37.30	10.4	50	12.7	AV	L1	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
Giga Print & scan + USB (Giga)Print	0.150	53.10	N	66.00	10.10	12.90	QP
	2.370	36.90	N	46.00	10.20	9.10	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RIC1104328_fin"**

11/4/2011 4:36PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	53.10	10.1	66	12.9	QP	N	GND
0.154000	47.40	10.1	66	18.4	QP	N	GND
0.210000	34.70	10.1	63	28.5	QP	N	GND
2.366000	39.30	10.2	56	16.7	QP	N	GND
2.958000	38.20	10.2	56	17.8	QP	N	GND
9.462000	39.20	10.4	60	20.8	QP	N	GND

MEASUREMENT RESULT: "RIC1104328_fin2"

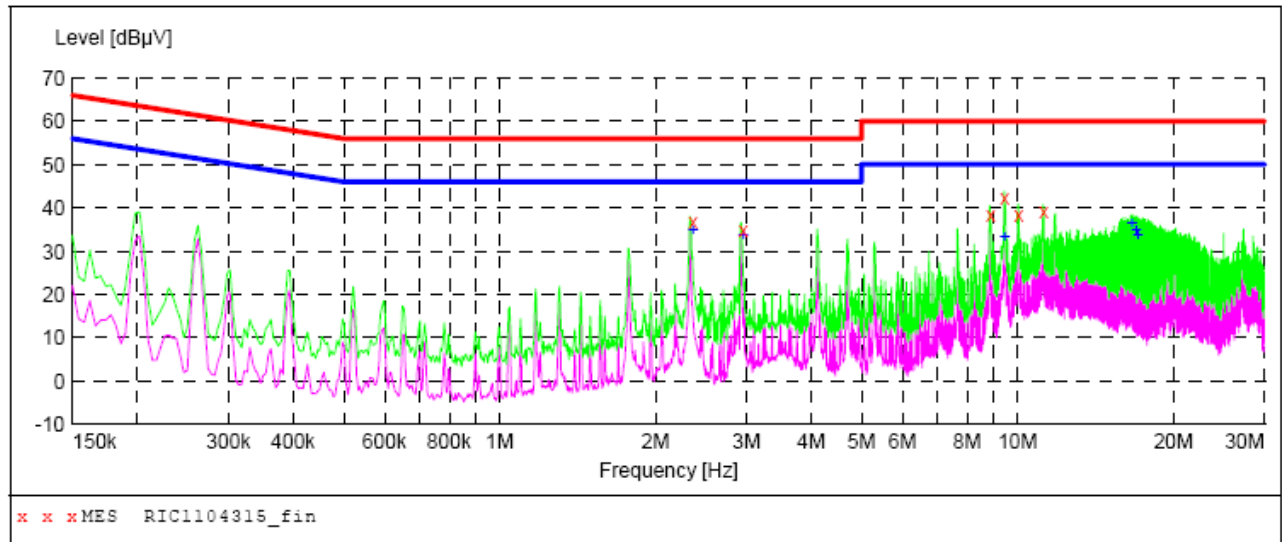
11/4/2011 4:36PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
2.370000	36.90	10.2	46	9.1	AV	N	GND
2.958000	35.50	10.2	46	10.5	AV	N	GND
9.466000	35.70	10.4	50	14.3	AV	N	GND
17.762000	36.20	10.4	50	13.8	AV	N	GND
18.162000	35.40	10.4	50	14.6	AV	N	GND
18.262000	34.90	10.4	50	15.1	AV	N	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
G3-TX	9.466	42.30	L	60.00	10.40	17.70	QP
	2.366	35.00	L	46.00	10.20	11.00	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RIC1104315_fin"**

11/4/2011 3:15PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
2.366000	36.70	10.2	56	19.3	QP	L1	GND
2.958000	35.00	10.2	56	21.0	QP	L1	GND
8.874000	38.60	10.4	60	21.4	QP	L1	GND
9.466000	42.30	10.4	60	17.7	QP	L1	GND
10.062000	38.30	10.5	60	21.7	QP	L1	GND
11.242000	39.40	10.4	60	20.6	QP	L1	GND

MEASUREMENT RESULT: "RIC1104315_fin2"

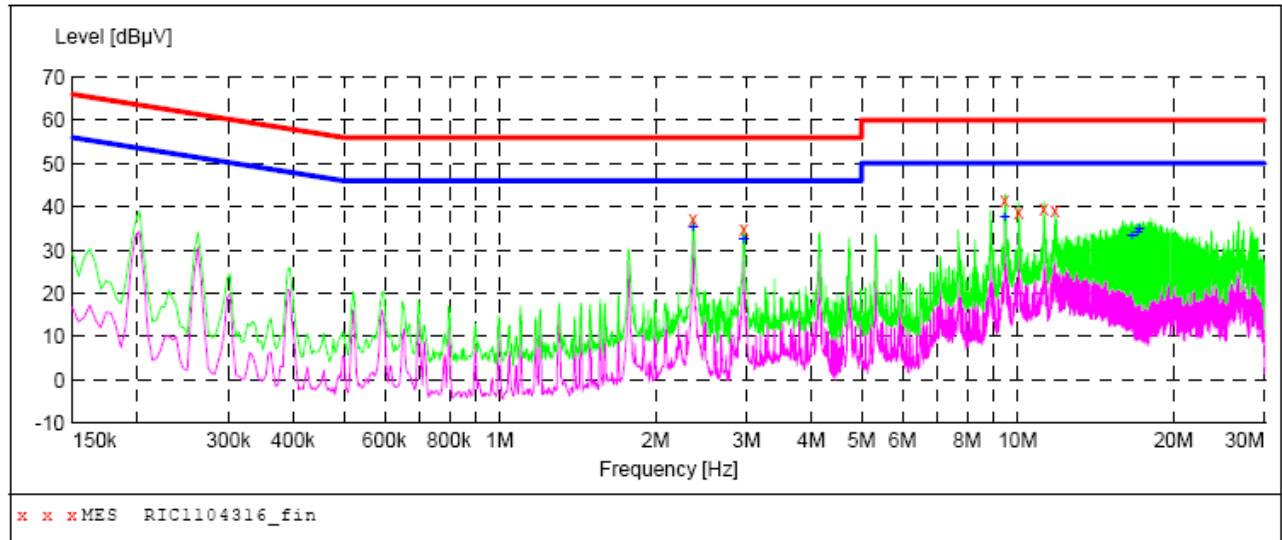
11/4/2011 3:15PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
2.366000	35.00	10.2	46	11.0	AV	L1	GND
2.958000	33.50	10.2	46	12.5	AV	L1	GND
9.466000	33.30	10.4	50	16.7	AV	L1	GND
16.670000	36.30	10.4	50	13.7	AV	L1	GND
16.970000	34.90	10.4	50	15.1	AV	L1	GND
17.074000	33.80	10.4	50	16.2	AV	L1	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
G3-TX	9.466	41.60	N	60.00	10.40	18.40	QP
	2.366	35.20	N	46.00	10.20	10.80	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RIC1104316_fin"**

11/4/2011 3:18PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
2.366000	37.10	10.2	56	18.9	QP	N	GND
2.962000	35.00	10.2	56	21.0	QP	N	GND
9.466000	41.60	10.4	60	18.4	QP	N	GND
10.058000	38.90	10.5	60	21.1	QP	N	GND
11.238000	39.50	10.4	60	20.5	QP	N	GND
11.830000	39.30	10.4	60	20.7	QP	N	GND

MEASUREMENT RESULT: "RIC1104316_fin2"

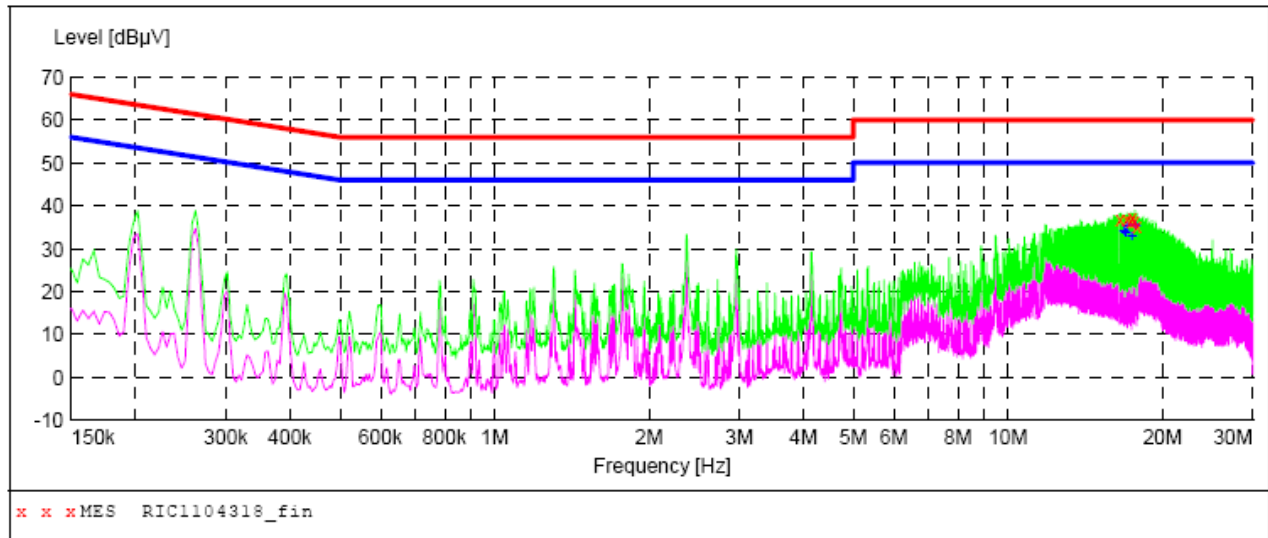
11/4/2011 3:18PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
2.366000	35.20	10.2	46	10.8	AV	N	GND
2.962000	32.60	10.2	46	13.4	AV	N	GND
9.466000	37.80	10.4	50	12.2	AV	N	GND
16.670000	33.40	10.4	50	16.6	AV	N	GND
17.070000	34.30	10.4	50	15.7	AV	N	GND
17.170000	35.10	10.4	50	14.9	AV	N	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
G3-RX	17.47	37.30	L	60.00	10.40	22.70	QP
	17.67	35.70	L	50.00	10.40	14.30	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RIC1104318_fin"**

11/4/2011 3:28PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
16.570000	36.80	10.4	60	23.2	QP	L1	GND
17.070000	36.90	10.4	60	23.1	QP	L1	GND
17.370000	36.40	10.4	60	23.6	QP	L1	GND
17.470000	37.30	10.4	60	22.7	QP	L1	GND
17.670000	36.50	10.4	60	23.5	QP	L1	GND
17.874000	35.30	10.4	60	24.7	QP	L1	GND

MEASUREMENT RESULT: "RIC1104318_fin2"

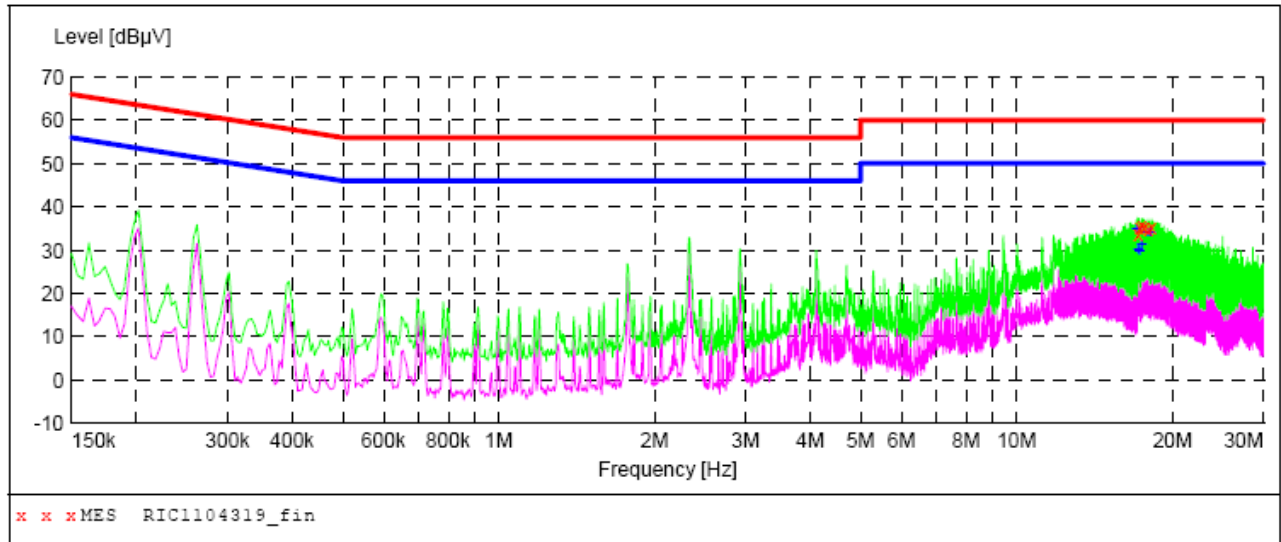
11/4/2011 3:28PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
16.870000	34.30	10.4	50	15.7	AV	L1	GND
16.970000	33.50	10.4	50	16.5	AV	L1	GND
17.070000	35.30	10.4	50	14.7	AV	L1	GND
17.474000	33.10	10.4	50	16.9	AV	L1	GND
17.670000	35.70	10.4	50	14.3	AV	L1	GND
17.770000	35.30	10.4	50	14.7	AV	L1	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
G3-RX	17.470	35.60	N	60.00	10.40	24.40	QP
	17.070	34.800	N	50.00	10.40	15.20	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RIC1104319_fin"**

11/4/2011 3:31PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
17.174000	33.70	10.4	60	26.3	QP	N	GND
17.270000	35.50	10.4	60	24.5	QP	N	GND
17.470000	35.60	10.4	60	24.4	QP	N	GND
17.670000	35.40	10.4	60	24.6	QP	N	GND
17.966000	35.10	10.4	60	24.9	QP	N	GND
18.270000	35.20	10.4	60	24.8	QP	N	GND

MEASUREMENT RESULT: "RIC1104319_fin2"

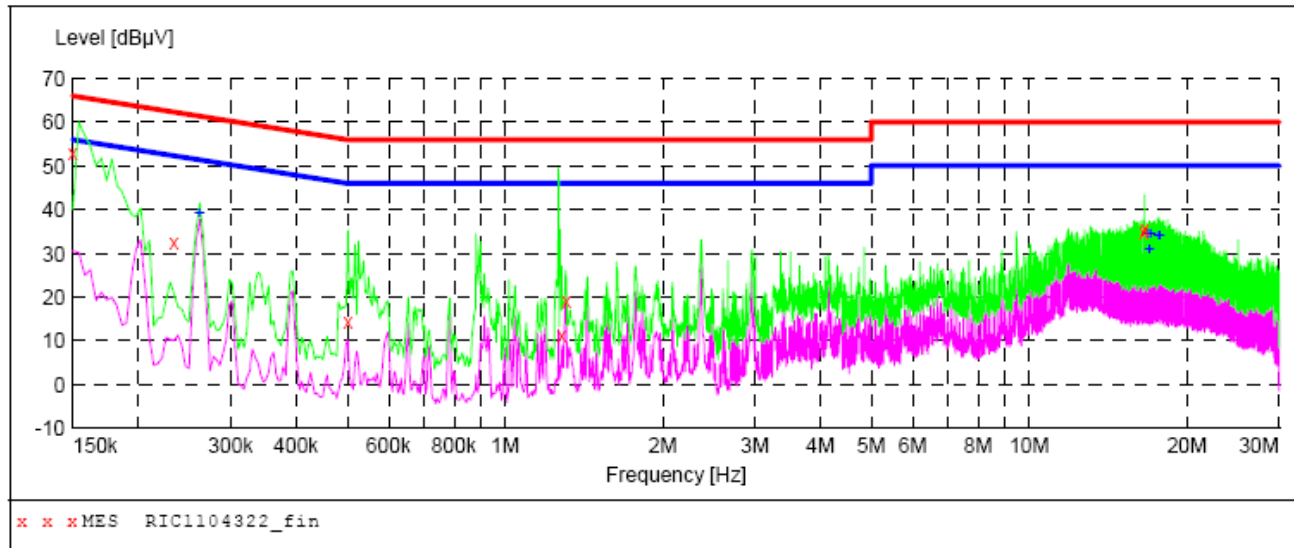
11/4/2011 3:31PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
17.070000	34.80	10.4	50	15.2	AV	N	GND
17.174000	30.40	10.4	50	19.6	AV	N	GND
17.274000	29.90	10.4	50	20.1	AV	N	GND
17.474000	31.30	10.4	50	18.7	AV	N	GND
17.970000	34.30	10.4	50	15.7	AV	N	GND
18.170000	34.20	10.4	50	15.8	AV	N	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
NIC Print&Scan	0.150	53.00	L	66.00	10.10	13.00	QP
	0.262	39.40	L	51.00	10.10	12.00	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RIC1104322_fin"**

11/4/2011 3:45PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	53.00	10.1	66	13.0	QP	L1	GND
0.234000	32.60	10.1	62	29.7	QP	L1	GND
0.502000	14.60	10.1	56	41.4	QP	L1	GND
1.282000	11.40	10.2	56	44.6	QP	L1	GND
1.310000	19.20	10.2	56	36.8	QP	L1	GND
16.570000	35.10	10.4	60	24.9	QP	L1	GND
16.666000	35.90	10.4	60	24.1	QP	L1	GND

MEASUREMENT RESULT: "RIC1104322_fin2"

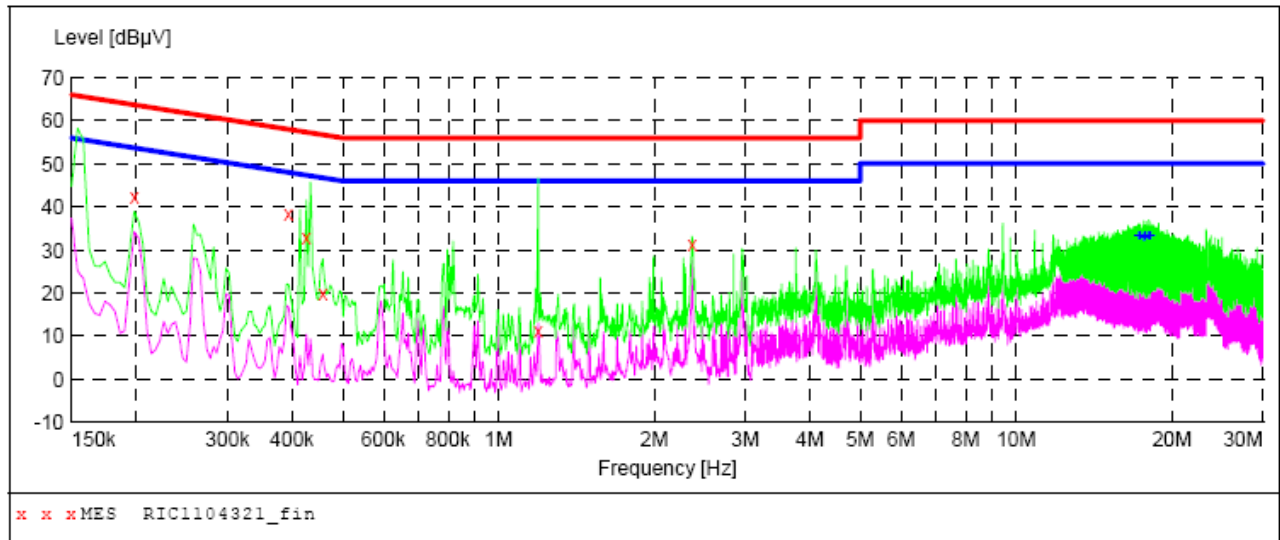
11/4/2011 3:45PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.262000	39.40	10.1	51	12.0	AV	L1	GND
16.866000	34.60	10.4	50	15.4	AV	L1	GND
16.970000	31.10	10.4	50	18.9	AV	L1	GND
17.066000	34.60	10.4	50	15.4	AV	L1	GND
17.666000	34.30	10.4	50	15.7	AV	L1	GND
17.766000	33.90	10.4	50	16.1	AV	L1	GND

Test Condition	Maximum Conducted Emissions		Line	Limit (dBuV)	Transd (dB)	Margin (dB)	Detector
	Frequency (MHz)	Datum (dBuV)					
NIC Print&Scan	0.394	38.50	N	58.00	10.10	19.50	QP
	18.066	33.40	N	50.00	10.40	16.60	AV
Test Results			Pass				

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

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "RIC1104321_fin"**

11/4/2011 3:39PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.198000	42.30	10.1	64	21.4	QP	N	GND
0.394000	38.50	10.1	58	19.5	QP	N	GND
0.426000	32.80	10.1	57	24.5	QP	N	GND
0.458000	20.00	10.1	57	36.7	QP	N	GND
1.194000	11.20	10.2	56	44.8	QP	N	GND
2.370000	31.50	10.2	56	24.5	QP	N	GND

MEASUREMENT RESULT: "RIC1104321_fin2"

11/4/2011 3:39PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
17.270000	33.20	10.4	50	16.8	AV	N	GND
17.370000	33.40	10.4	50	16.6	AV	N	GND
17.670000	33.00	10.4	50	17.0	AV	N	GND
17.770000	33.20	10.4	50	16.8	AV	N	GND
18.066000	33.40	10.4	50	16.6	AV	N	GND
18.166000	33.20	10.4	50	16.8	AV	N	GND

5. External and Internal Photos of the EUT

5.1. External photos of the EUT

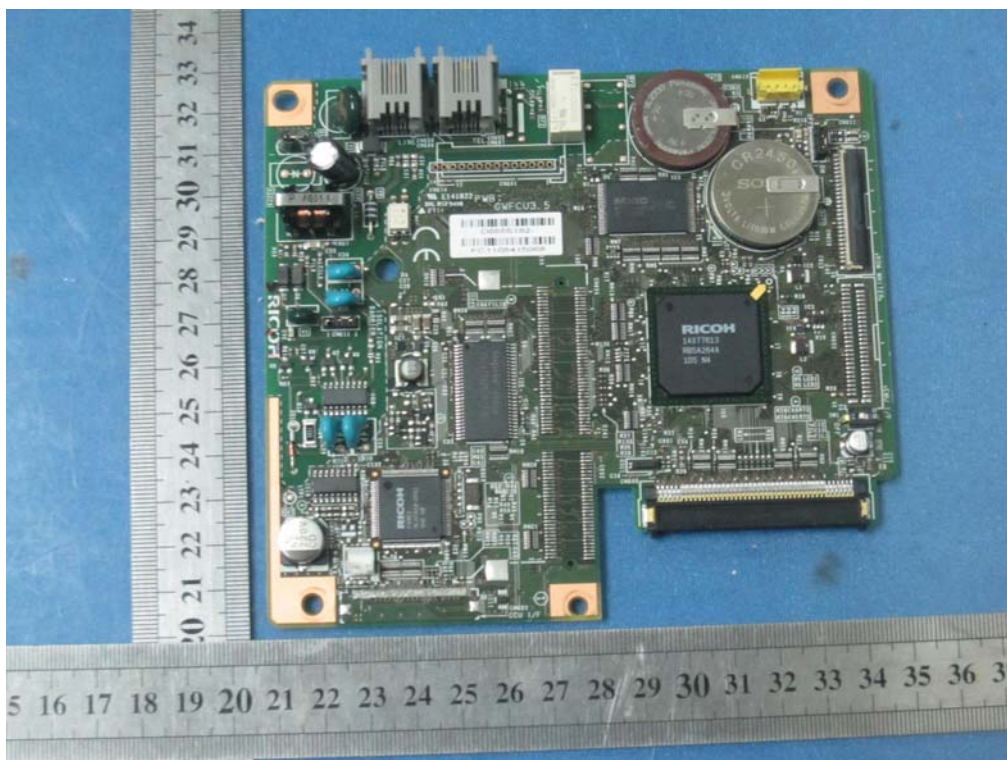


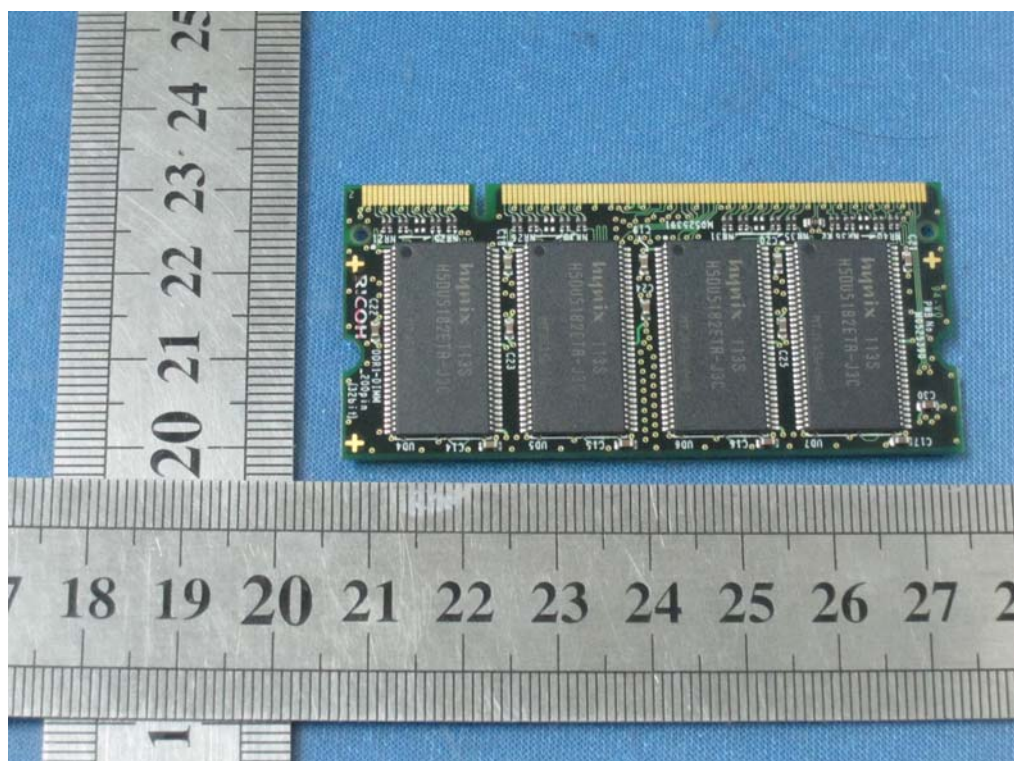
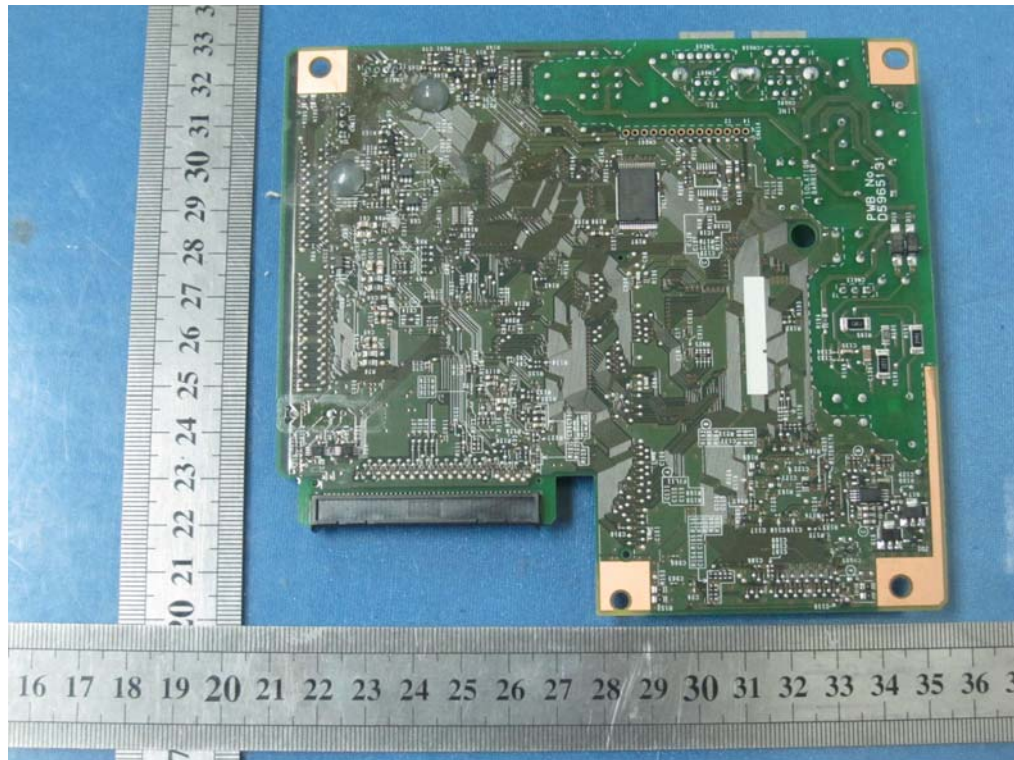


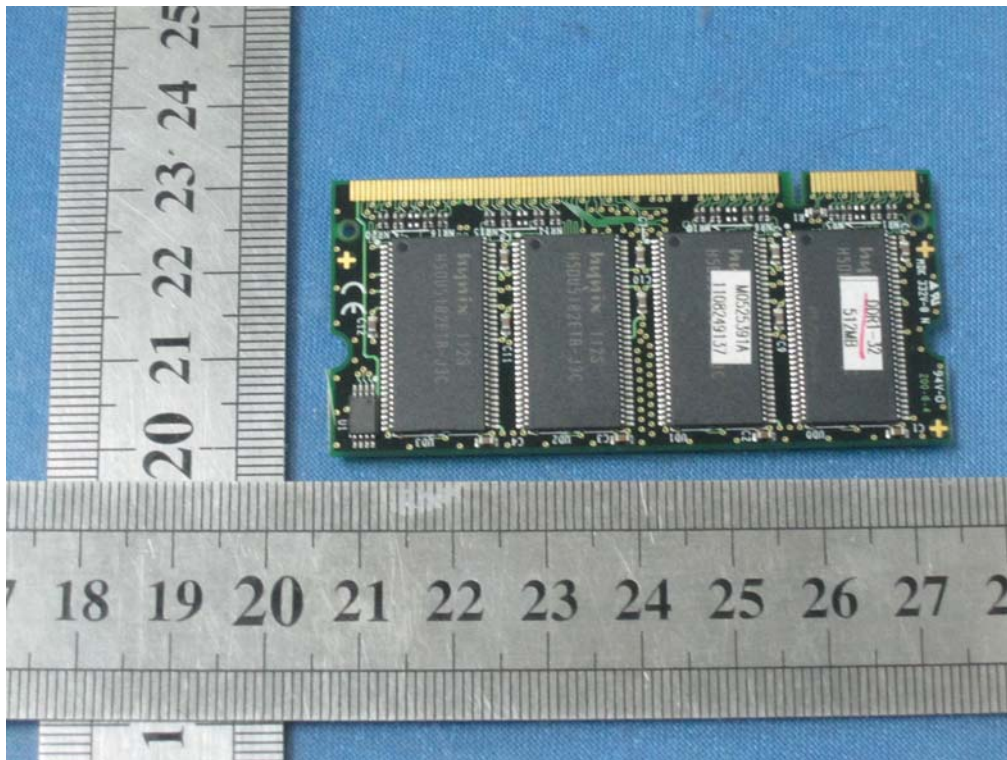


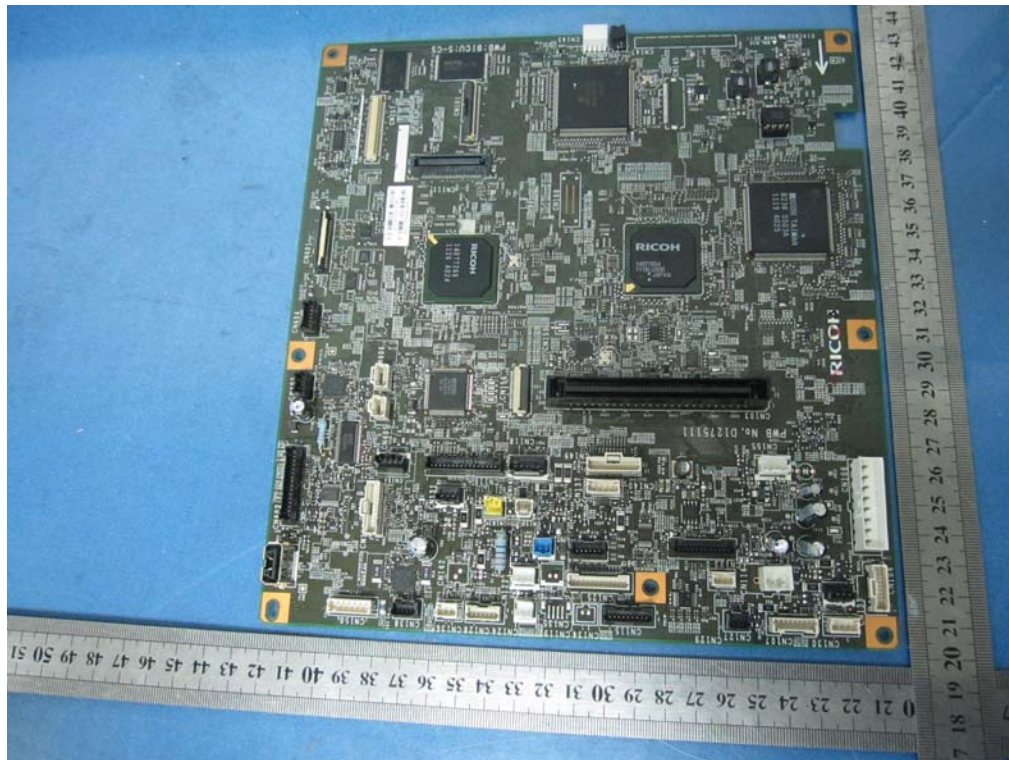
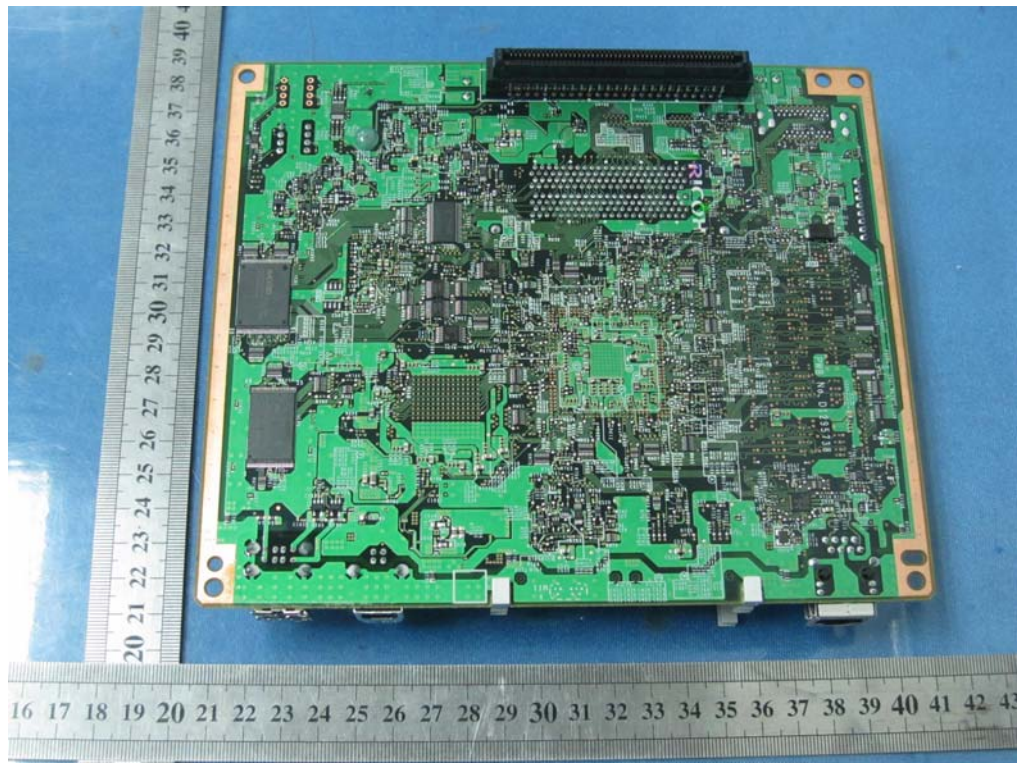
5.2. Internal photos of the EUT

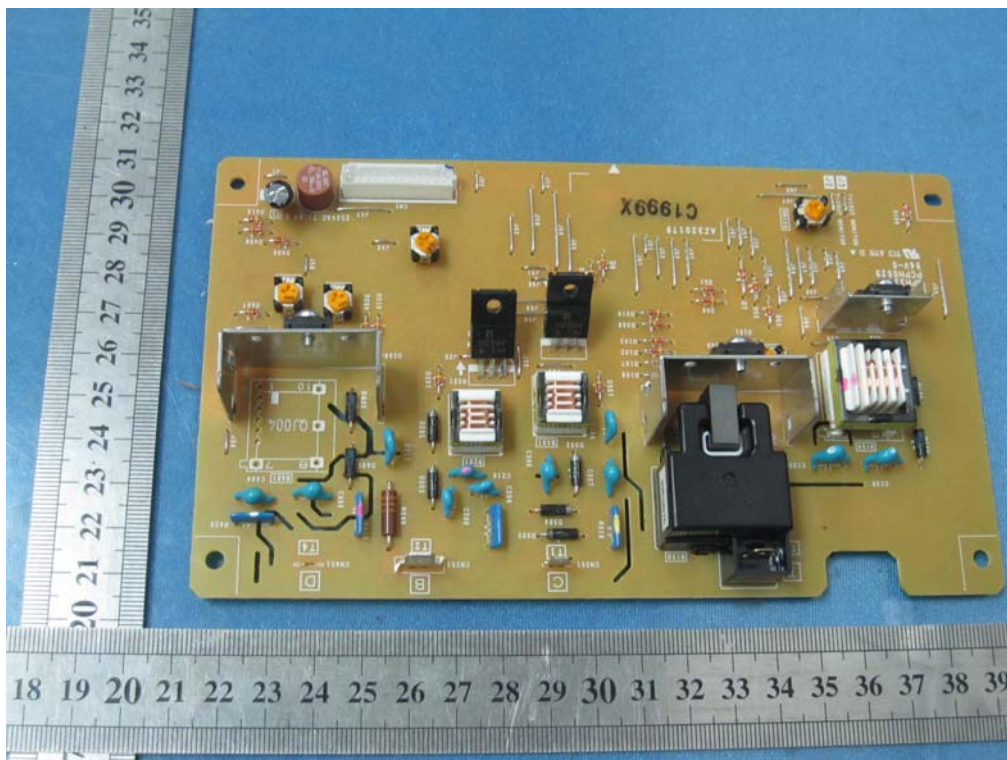
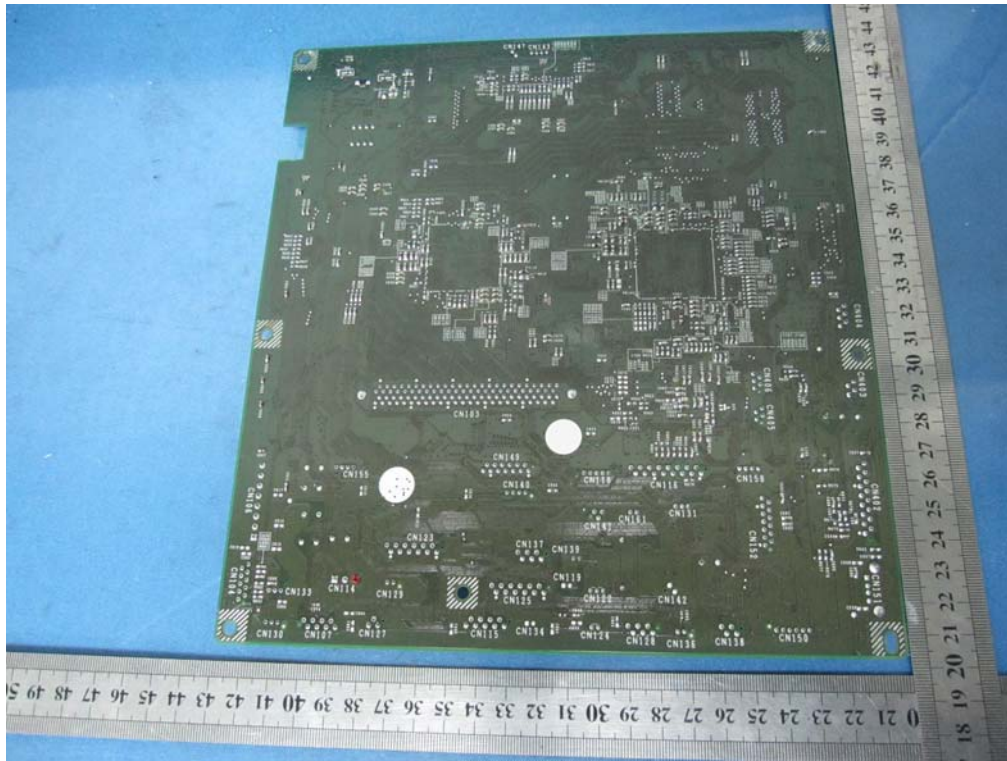


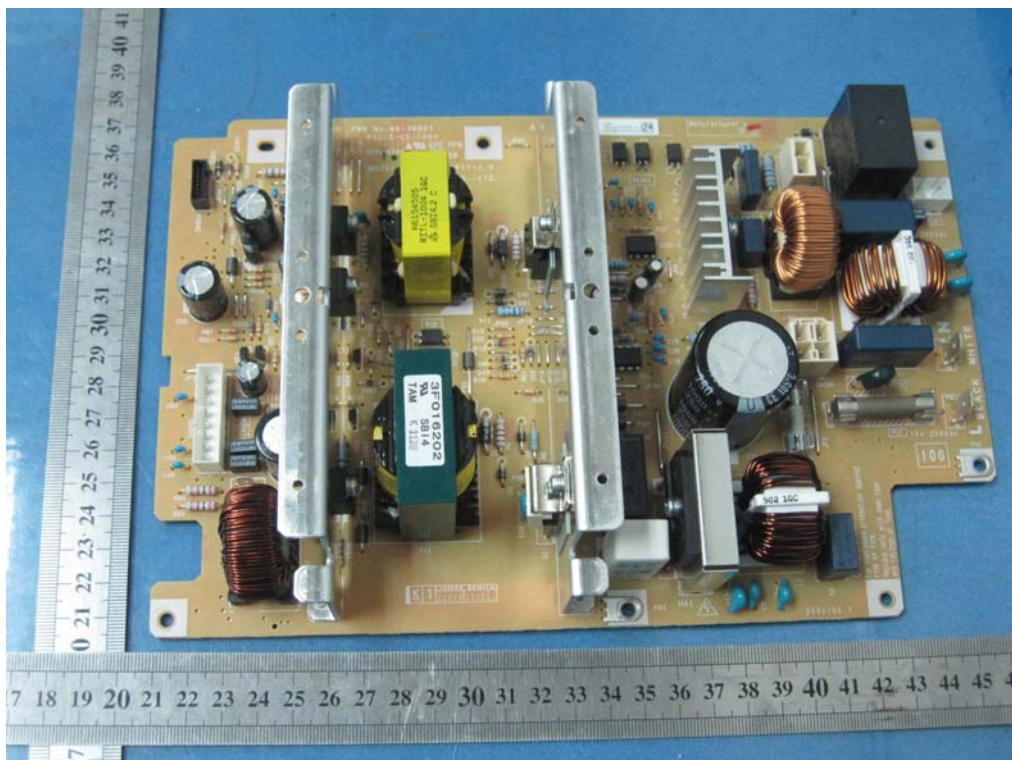
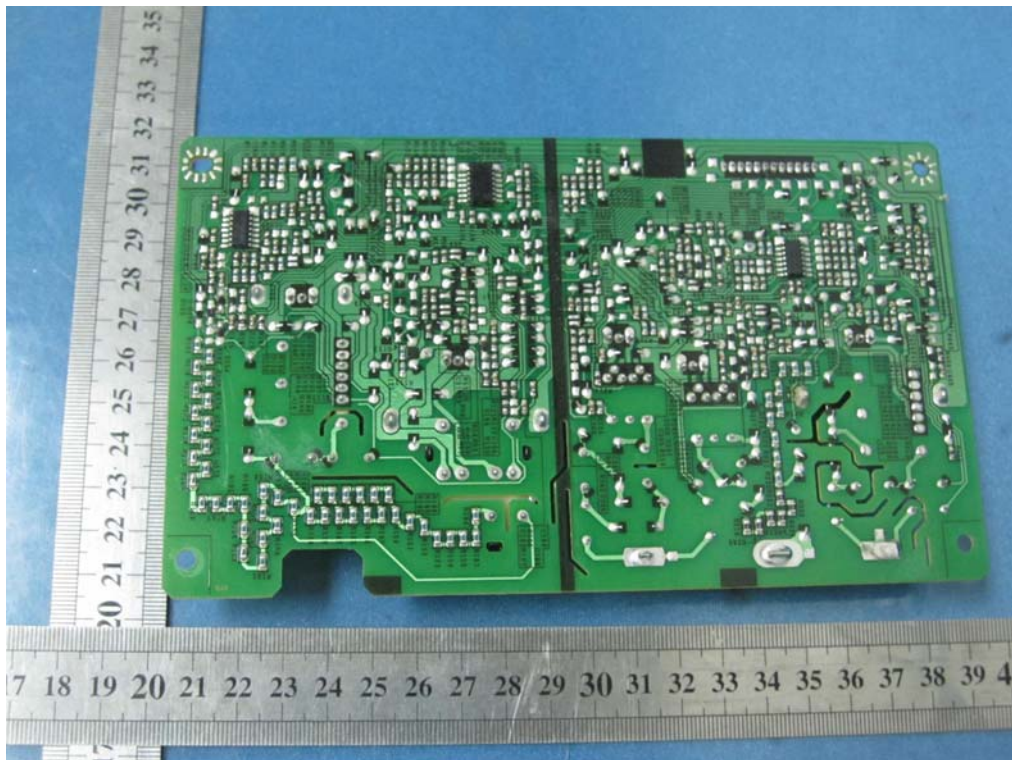


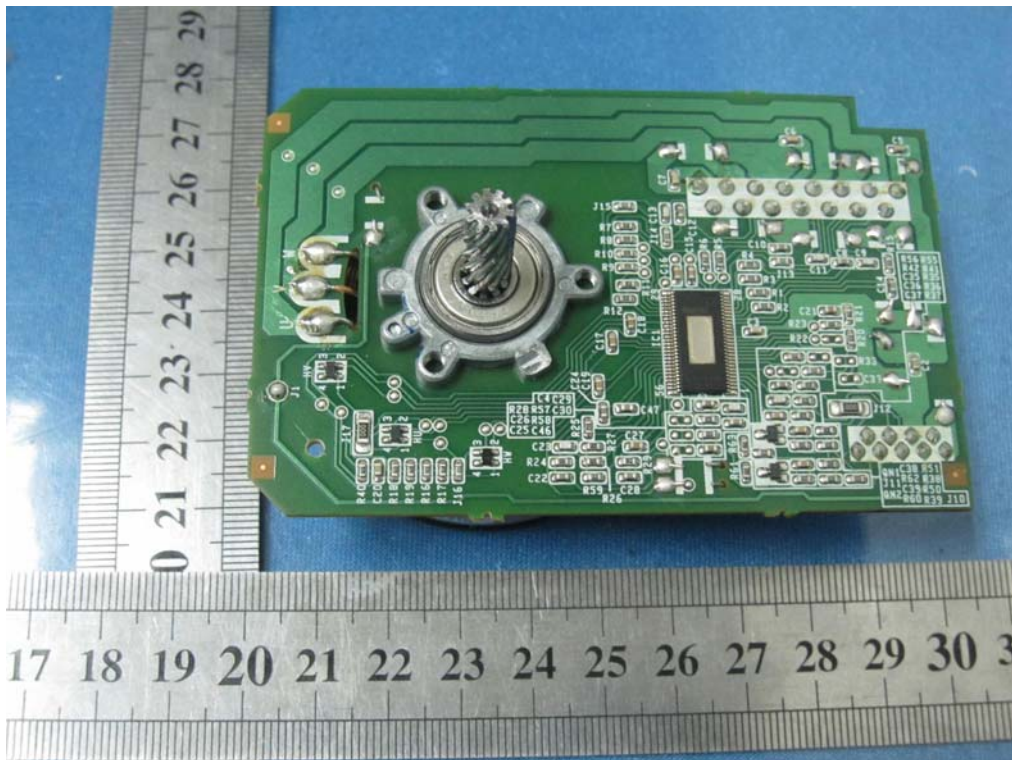
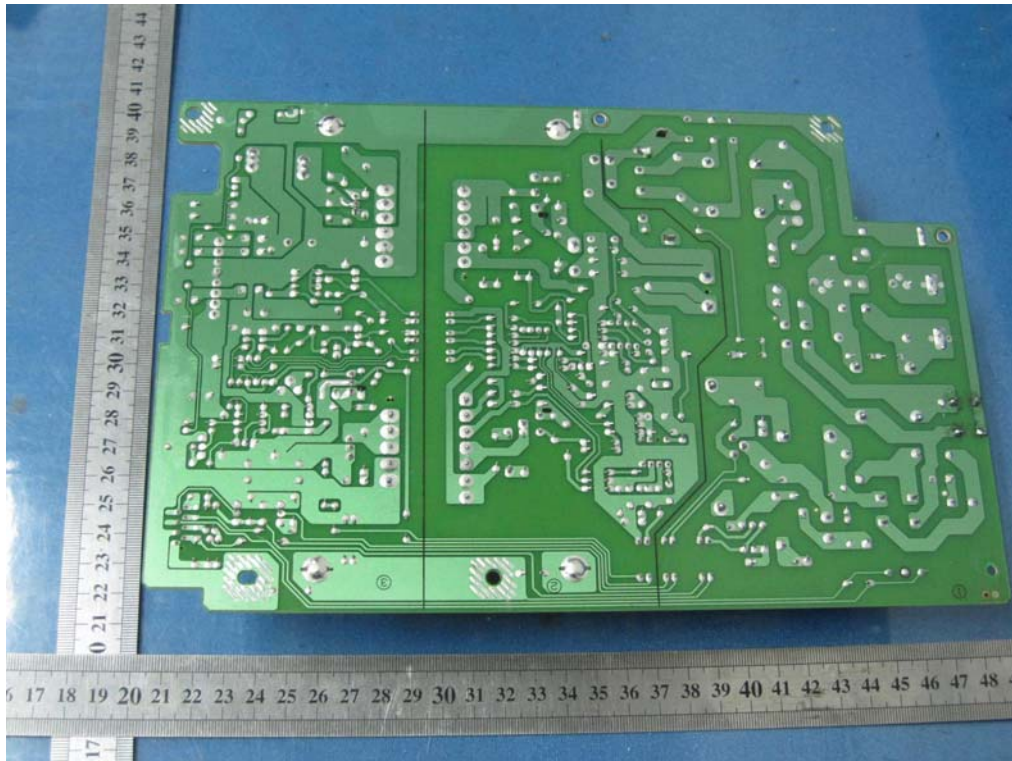


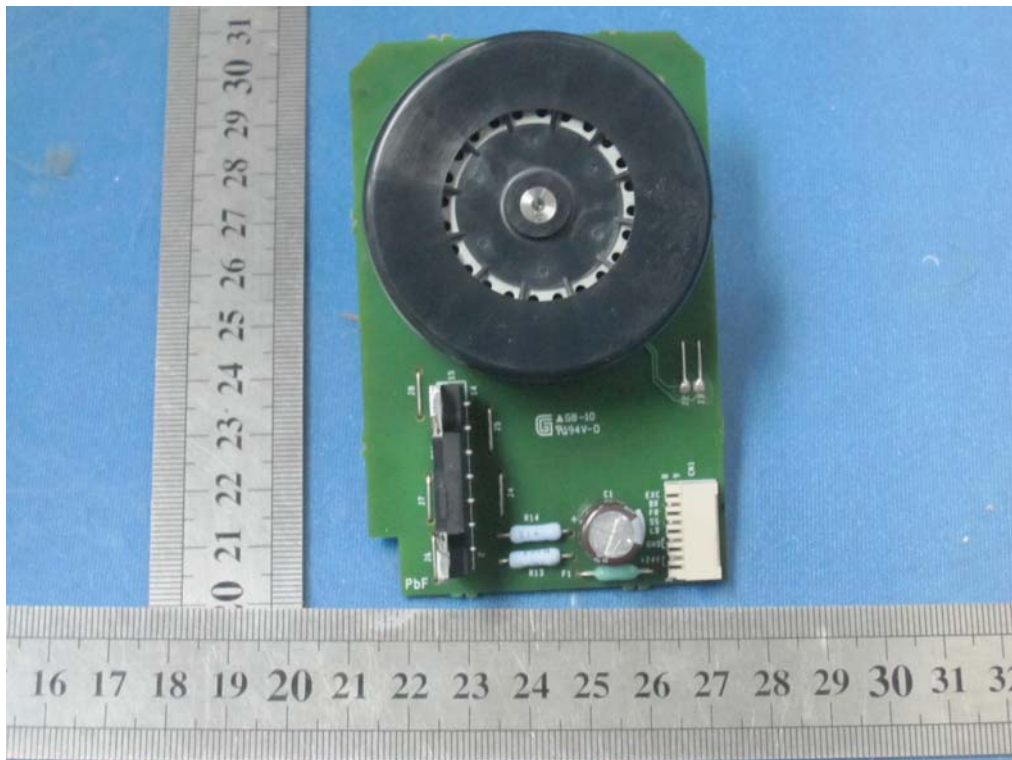


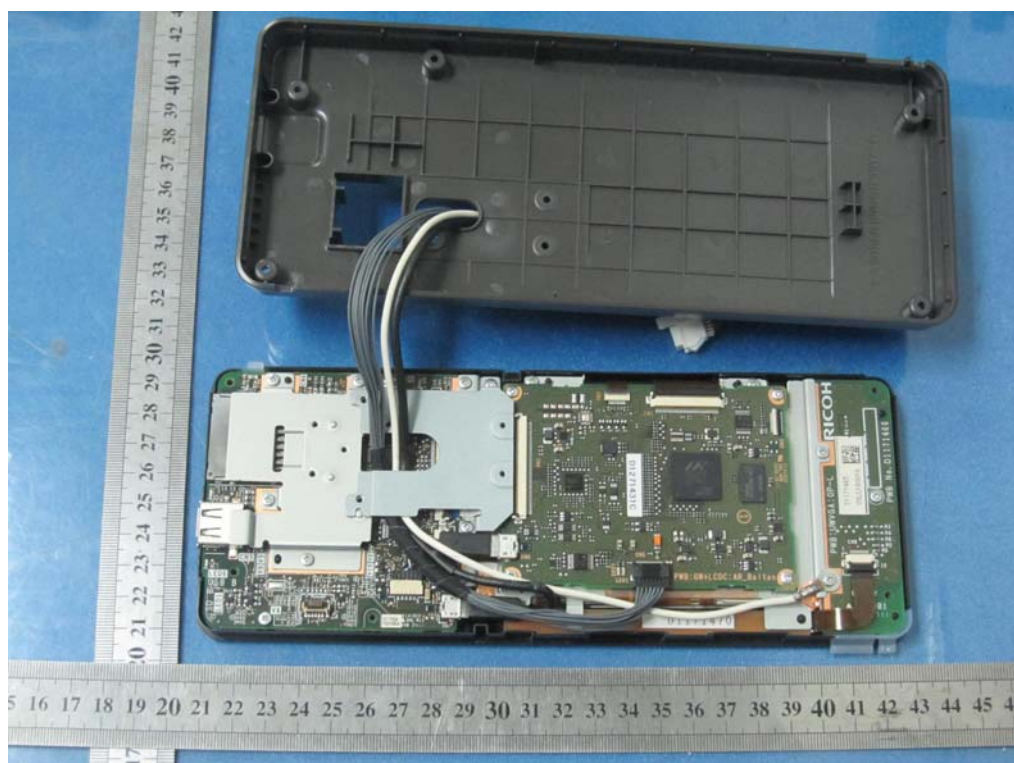
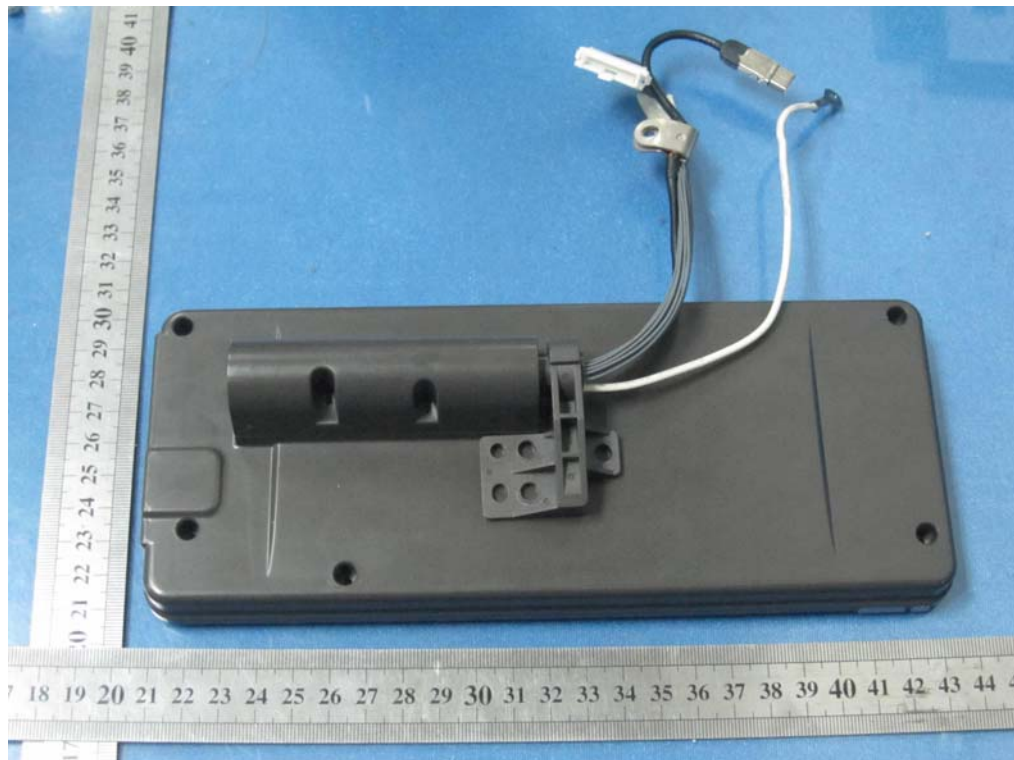


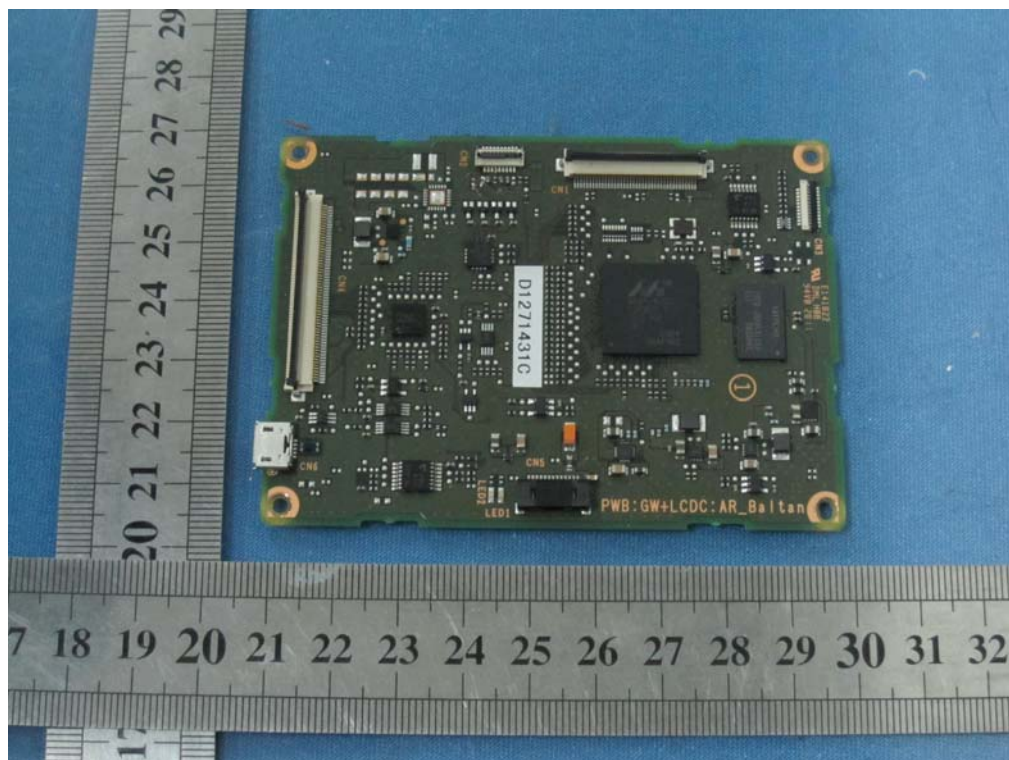
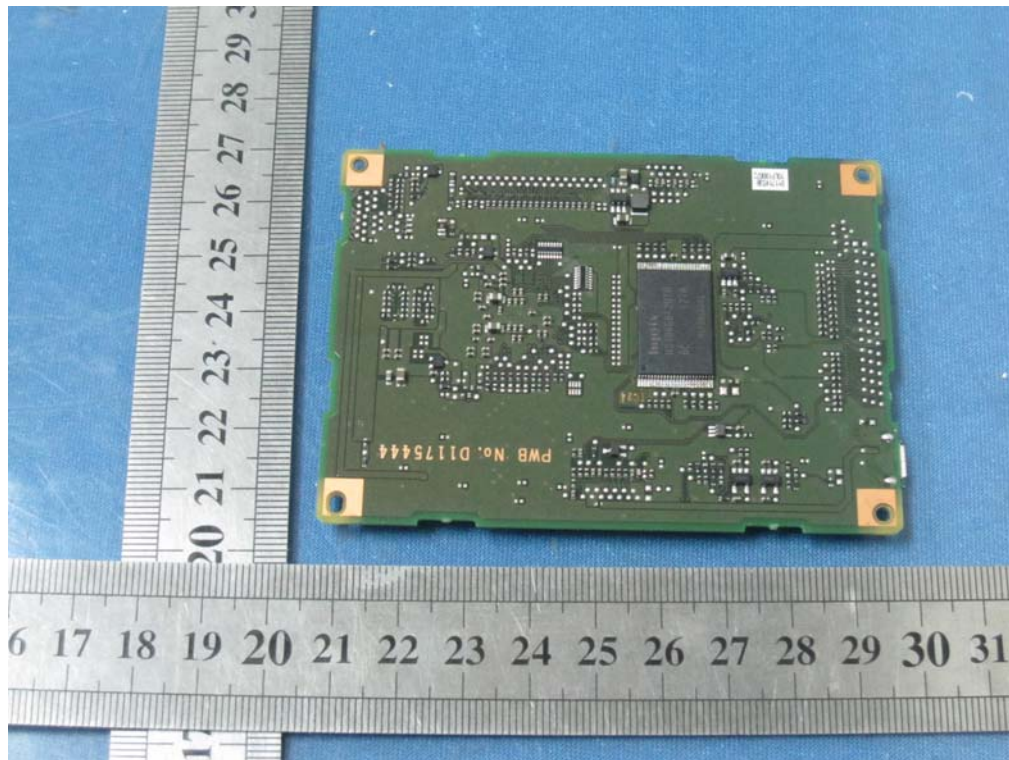


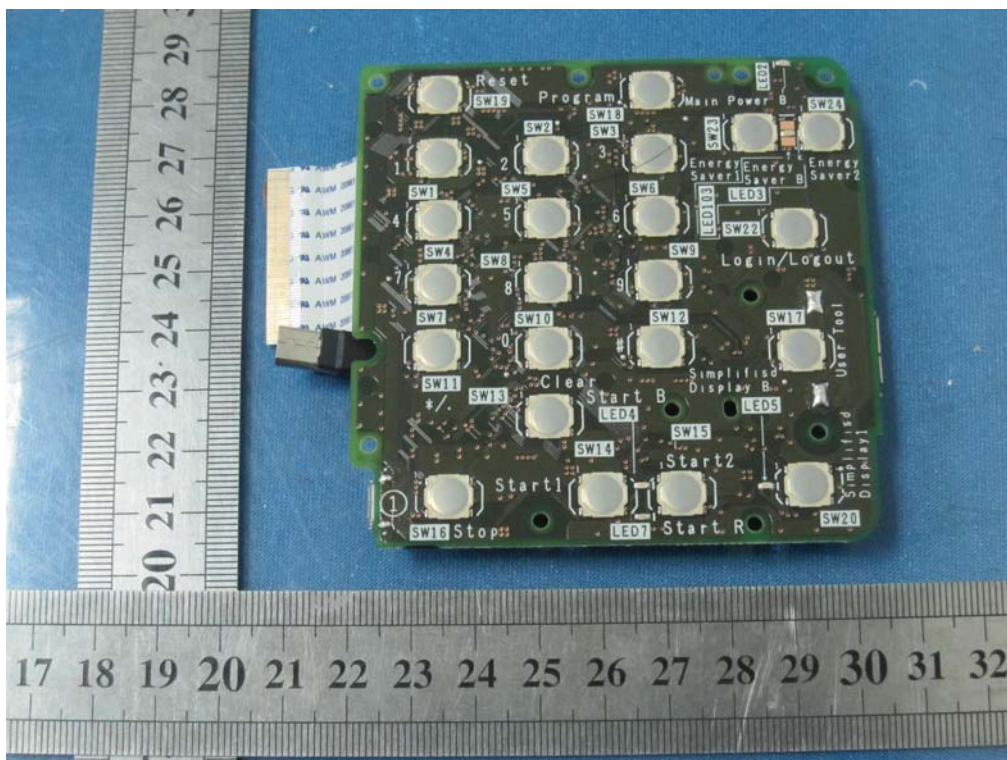
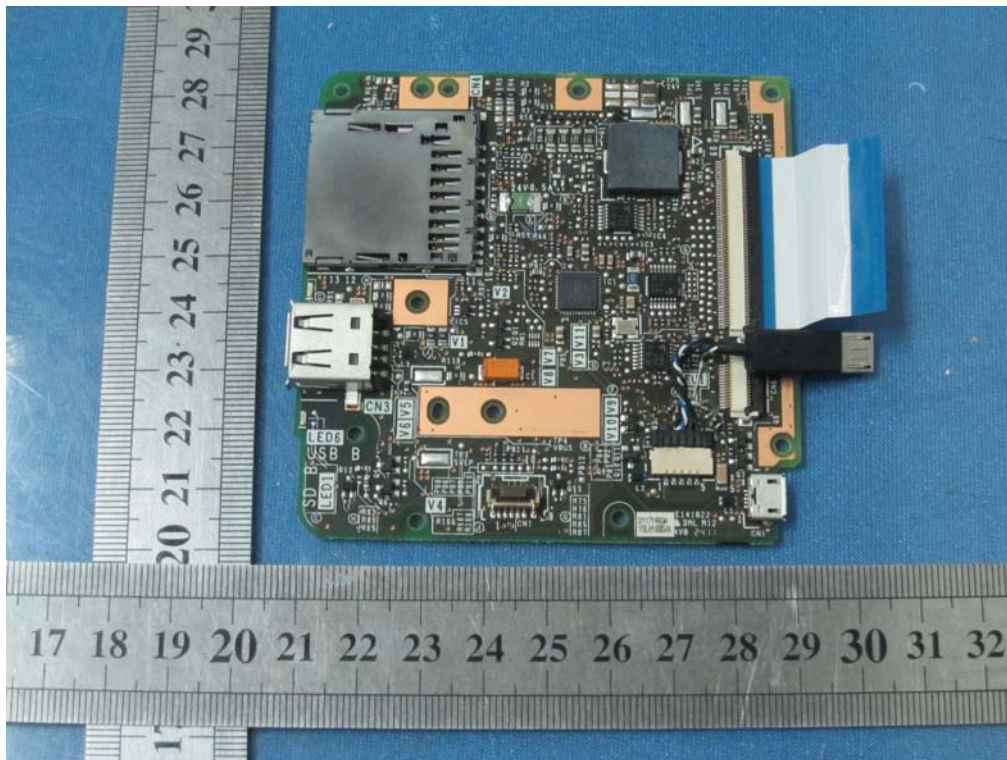


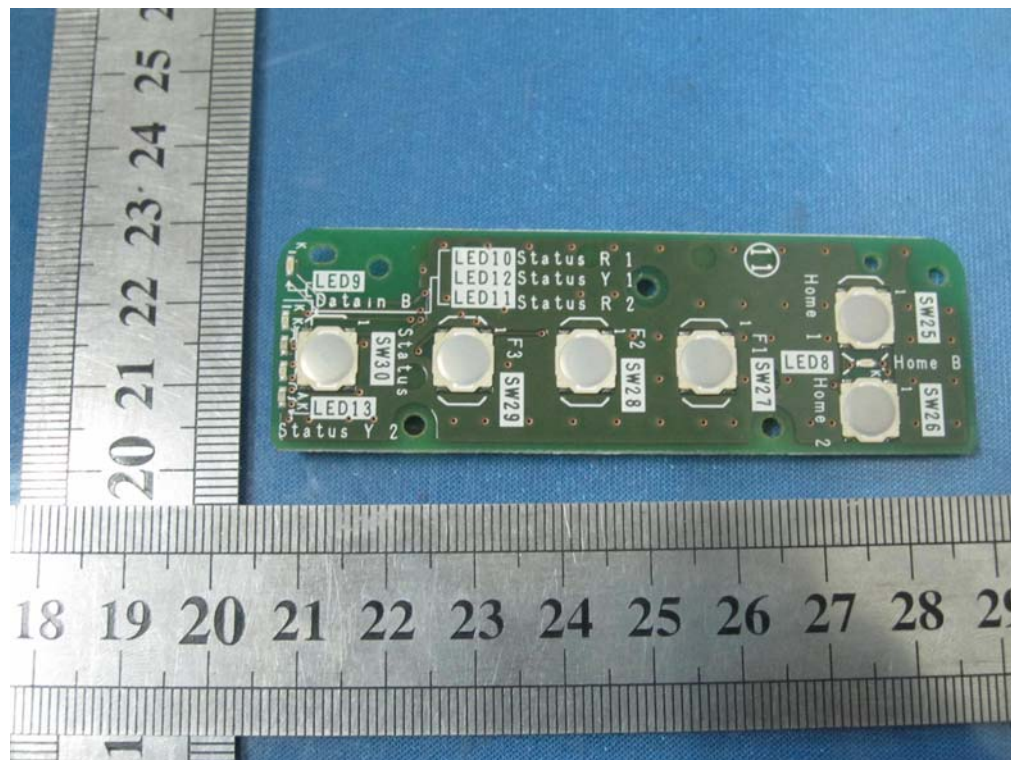


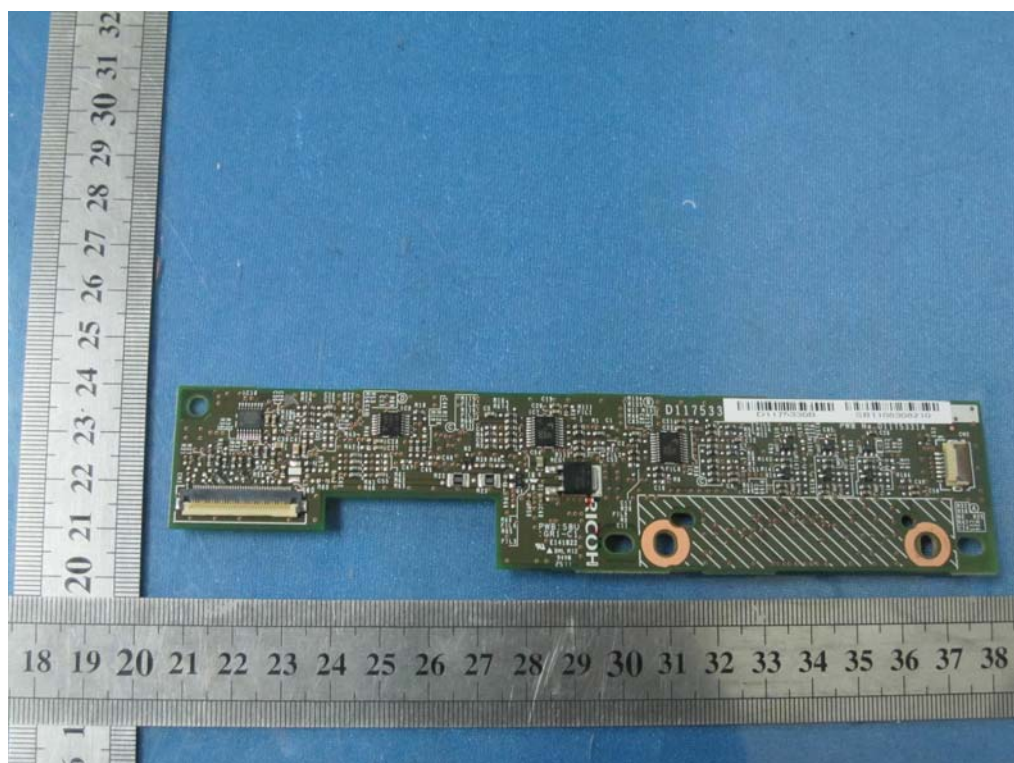
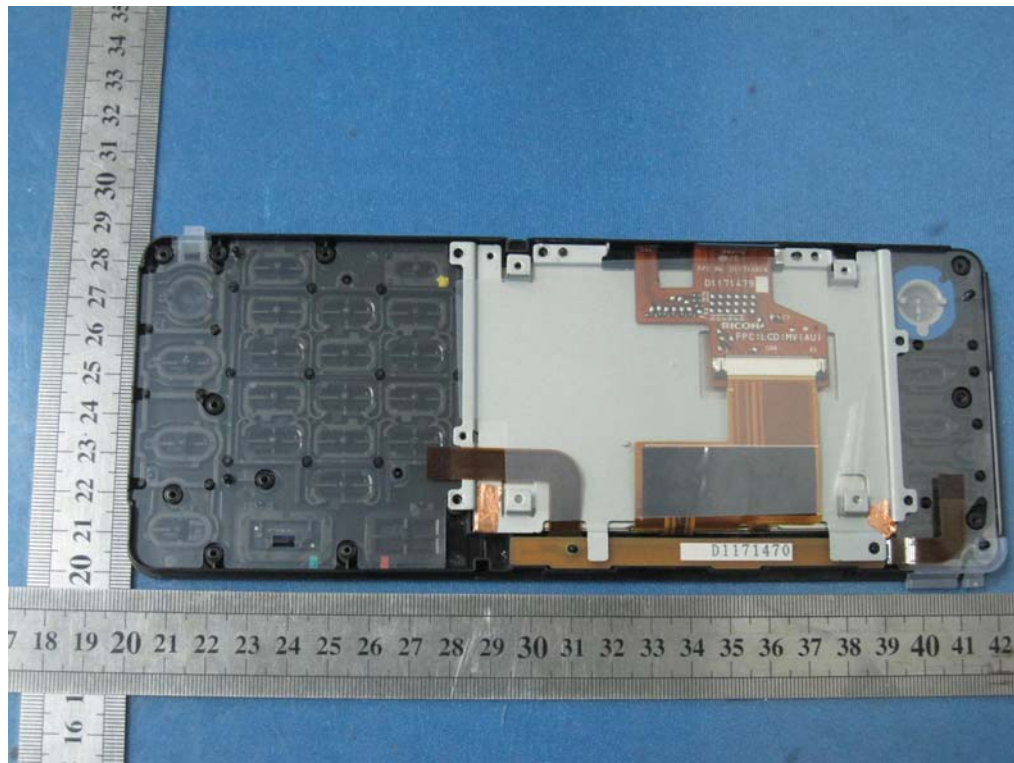


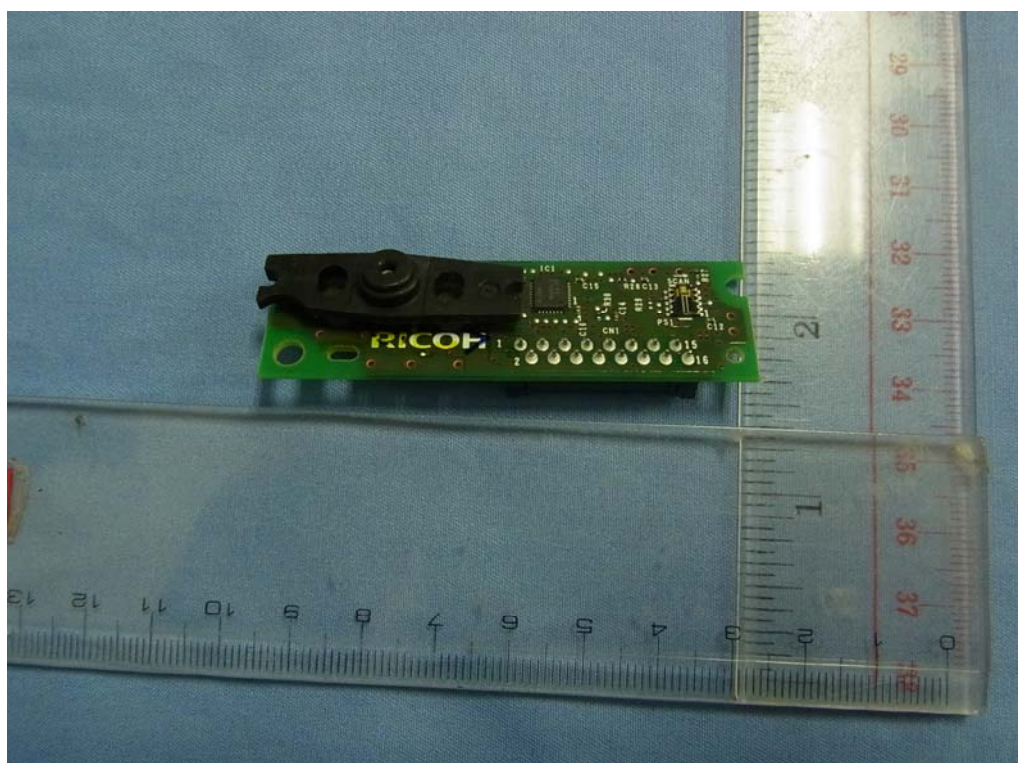
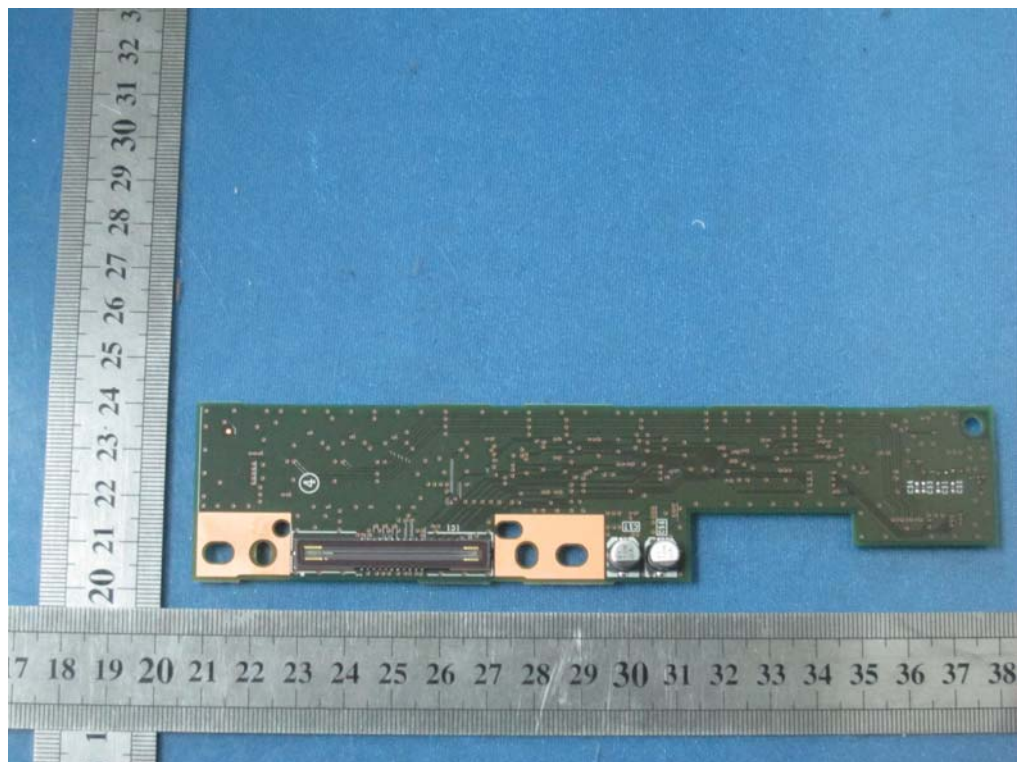


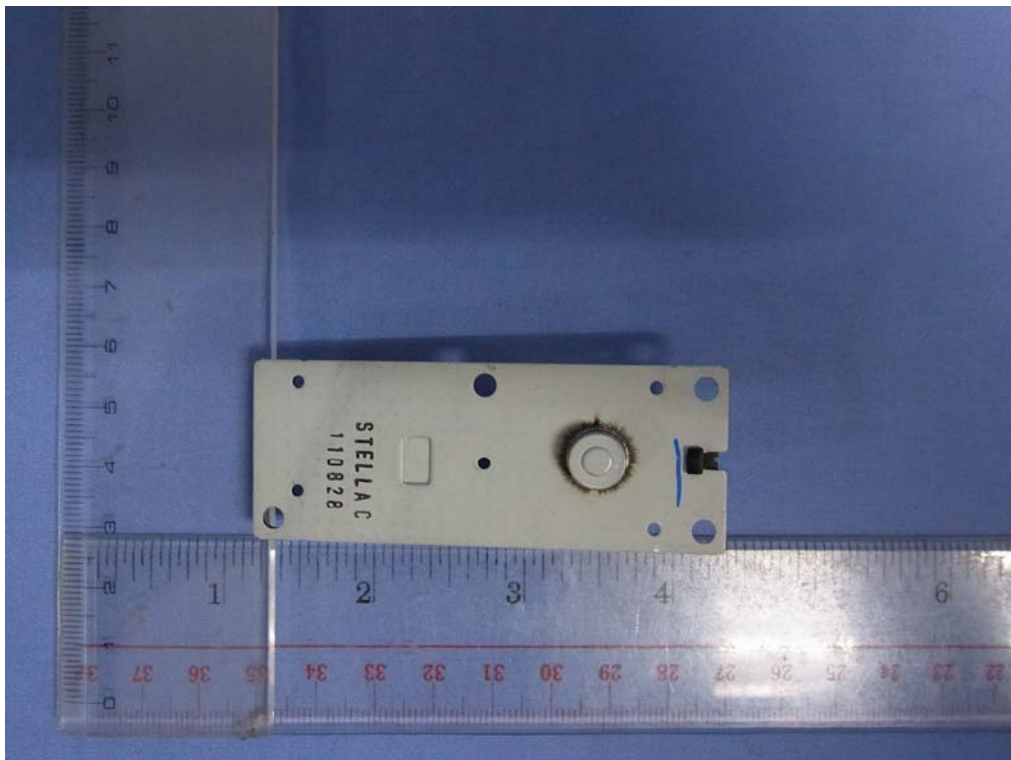
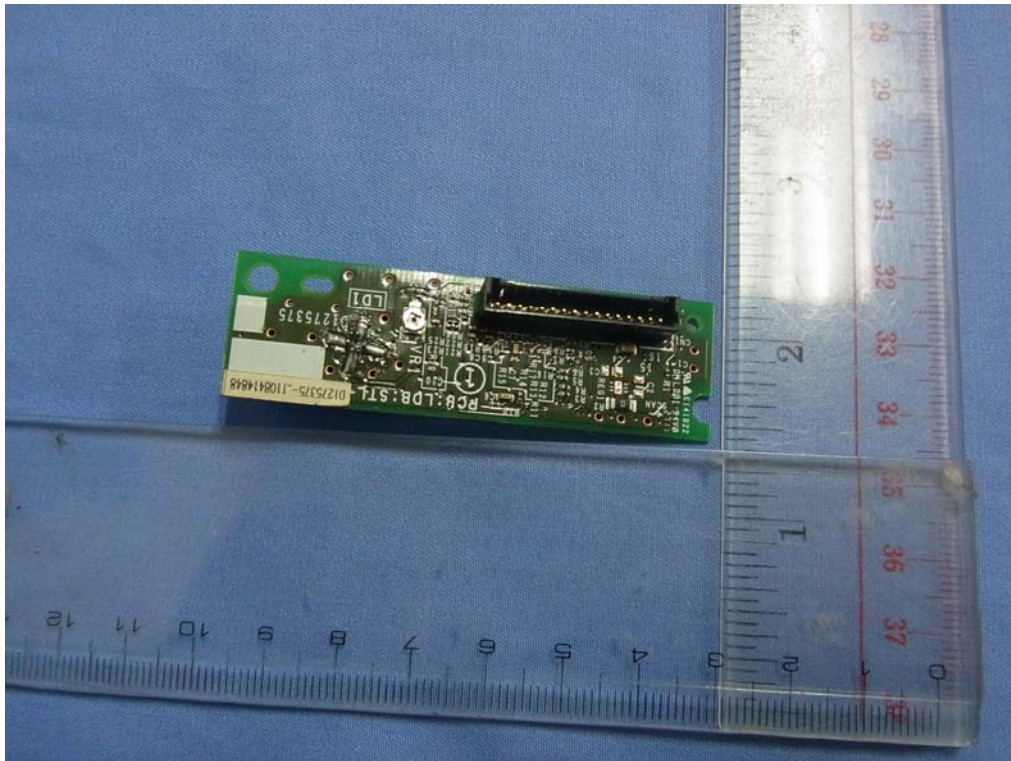


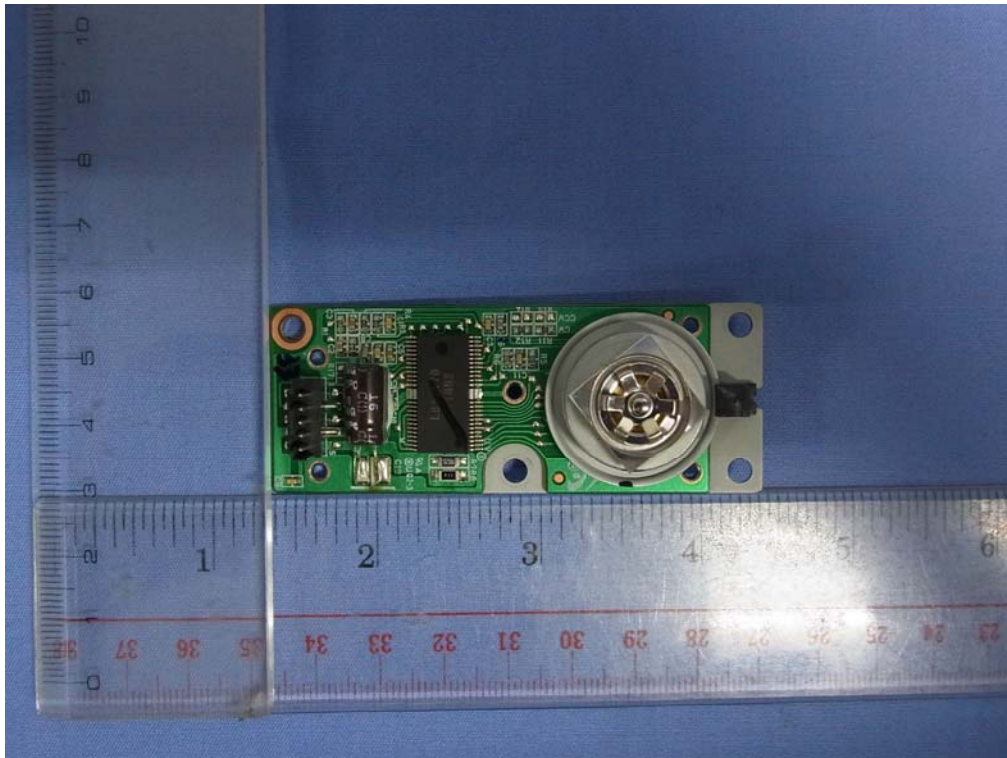












.....End of Report.....